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Repeater Journal

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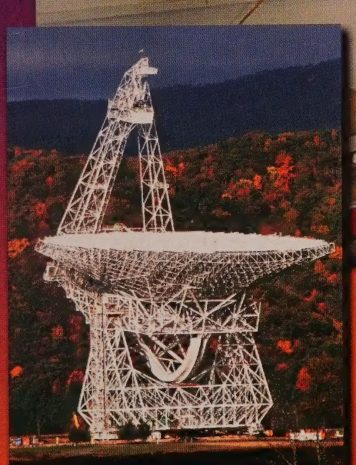
The Official Voice of SERA, Inc.
Aug., Sep., Oct., 2001 3.00

In This Issue!

Introducing Some New Board Members
SERA Board Holds Summer Meeting
Newly Updated Hamfest Calendar
Getting Started! - "Cross Band Repeating"

Riley Visits Hamfests

He pauses a moment with our SC Vice-Director at the Spartanburg Hamfest



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AUG., SEP., OCT., 2001 - ISSUE 3

SERA Repeater Journal
The Official Voice of SERA, Inc.

By Far . . .The Most Recognized Regional Amateur Publication in the United States

The Voice of the SouthEastern Repeater Assn., Inc.
Published 4 Times A Year in Feb., May, Aug., Nov.
Exclusively for Southeastern Repeater owners and users.

Editorially Speaking . . !

Bits Here . . . Bits There!

I don't know if it's me, or am I just getting old and lonely, or have the urge to see old friends, or what . . . but I am having a ball at every hamfest I go to! I spend the better part of the morning, eating, walking, talking and shaking hands. It is so great to be able to meet folks you've known for 20 years, and don't get to see that often.

So far thru July I have been to 7 area shows. I have on my schedule to go to at least 4 more, maybe 5. I just can't get over it . . . so if it's one I can take in within a days drive there, do the show, and come back home before too late, I go.

Have you found this to be true yourself? Maybe you should try attending a few more shows, and go to have some fun. I guarantee it benefit you.

Another thing I have noticed this year, (knock on wood) most hamfests all over are reporting a slight improvement in attendance over last year. I know of two who report all-time records in attendance. Could the coming year 2002 be the year we break out of the 10 year downtrend in attendance . . . I hope so. The hamfest sponsors, and the "poor" dealers deserve an upswing in business.

* * * * *

Gary Pearce, KN4AQ and I have worked out quite a few of the stumbling blocks of two people putting out a magazine living 90 miles apart.

We were able for him to generate about 7 pages of this issue. By the November issue, I am hoping to be able to feed him at least half the magazine for generation of finished page negatives.

Then by next February, we anticipate all of the magazine will be generated digitally straight to negative for the printer. We switched paper again this issue. The coated enamel we used last issue was good, but quite heavy in weight, then we found out that weight was being discontinued and we would have to go to a still heavier weight. With this issue, we opted to go back to a text stock, which should whiter, more opaque and better reproduction from what we have been using the past five years.

* * * * *

Our Treasurer, Johnny Wofford, WA4ETE, reports that SERA is in a good sound financial footing. That's good news. It means our organization has been doing their job within proposed budgets, and membership has increased somewhat causing additional revenues. From this I could assume that dues will not increase, and ad rates will not increase in the near future. That is really contrary to what you are seeing in most other business, especially magazine businesses.

* * * * *

Well! Gotta go. Hope I see some of you at some of the future hamfests. We can chat a spell!!!

-Wayne C. Williams, K4MOB, Editor

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SERA Repeater Journal
The Most Recognized Regional Amateur Magazine in the U.S.
The Official Voice of SERA, Inc.

Aug., Sep., Oct., 2001
Volume 30, No. 3
Organized in 1971
"Providing 30 Years" Of Continuous Service To Amateur Radio

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Check out the Official SERA Web Site: www.sera.org

About the SouthEastern Repeater Association,

SERA, SouthEastern Repeater Association, Inc. is the largest, most well known, non-profit Repeater Coordinating Organization in the United States. SERA territory covers over 329,000 square miles across 8 states. Over 2,300 repeaters are available to more than 91,000 Amateurs from the Southeastern member States of Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia. In 2001, SERA enters its 30th year of service with our continued mission statement: "To serve the Amateur repeater owners and users of the Southeast by providing a voice of communications, information and education with the publication of the *Repeater Journal*, and the guidance of our State (Director) Coordinators, officers and volunteers."

About the SERA Repeater Journal Magazine

The *Repeater Journal*, voice of SERA is published quarterly, on the first of the months of February, May, August and November and mailed free to members of SouthEastern Repeater Association, Inc. DEADLINES: News and Ad copy due the 1st of the month, one month prior to publication. (Jan. 1 for Feb, Apr. 1 for May, Jul. 1 for Aug. and Oct. 1 for Nov. issues.) The *Repeater Journal* is mailed Bulk Rate at the Post Office in Greensboro, NC. The *Repeater Journal* newsstand cover price is $3.00 and is available from numerous retail Amateur Dealers in the southeast. News and newsletter exchanges should be mailed to the Editor or for coveratge to individual State corresponodents whose addresses are in this book under their indivudal State Columns.

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About SERA Associate Membership

(A Membership for Repeater Users)

Amateurs, especially repeater users, are invited to join SERA as Associate Members. Only $8.00 per year will enable one to support the organization and receive the Repeater Journal. Associate Membership deadlines are the 15th of the month preceding months of publications - (Jan. 15, April 15, July 15, and October 15). Persons joining or renewing their memberships must have their application into the Tobaccoville Post Office Box by those deadlines to receive the next upcoming Repeater Journal, published the first week of February, May, August and November. Memberships received after deadline will receive the forthcoming issue the following quarter. HOT-P Associate Memberships (Repeater Journals mailed 1st Class rate) are limited to one year memberships at $14.25 per year. Regular membership Repeater Journals are mailed Bulk Mail. SERA does not issue receipts for Membership applications, nor are Repeater Journals forwarded to new addresses. If you move, we must be notified. Members should wait until next Repeater Journal comes out to report any problems. Write SERA Associate Membership, P.O. Box 215, Tobaccoville, NC, 27050-0215 for further information. Associate Members may hold appointive offices and positions within the SouthEastern Repeater Association, Inc.

About SERA Full Repeater Membership

(A Membership for Repeater Owners & Sponsors)

Officers and Directors are elected from Repeater representatives who are SERA Full Members. Any repeater owner or club may with a coordinated, operable, repeater, join SERA as a Full Member. Full Membership application, coordination information (if not on file) and $20.00 should be submitted for the annual Full Membership fee. Two Full Members, named and listed on the application by the owner, receive the Repeater Journal from each application. The Full Member repeater is also appropriately recognized as a SERA supporter in the repeater index with a "Smiley Face" (☺) code. All Full Memberships expire on December 31 of each year. Write SERA Membership, P.O. Box 215, Tobaccoville, NC 27050-0215 for further information.

Journal Drops "Unknown" List

The SouthEastern Repeater Association is solidly in the black, the pace of new coordinations is slowing a bit, several new assistant Directors were appointed, and the "Unknown Repeater" list is being dropped from the Repeater Journal Index. Those are some of the headlines from the SERA Summer Board Meeting, held in Pigeon Forge, Tennessee, on June 2nd and 3rd.

SERA In The Black

Thanks to a solid membership base, income from the annual sale of the repeater index to the ARRL, Repeater Journal advertising and prudent financial management, SERA Treasurer Johnny Wofford WA4ETE was able to report that the organization is in good financial health. Unlike some other coordination groups, SERA does not charge for coordination services. Membership is entirely voluntary, and Johnny says there are no plans to change that policy.

Repeater Journal Changes

Gary Pearce KN4AQ, Associate Editor for the Repeater Journal, announced plans to spend some of the money that Johnny has been shepherding. The paper stock used for the Journal until last February is no longer available. The May issue was printed on a heavier, glossy stock that drew many favorable comments, but it, too has been discontinued. The August issue is being printed on yet another type of paper that Journal Editor Wayne Williams K4MOB hopes members will like. Of course, it costs a bit more.

Wayne and Gary are also working on improving the printing process by supplying digitally produced negatives to the printer. The result should be sharper type and better looking pictures. This page, and a half-dozen others in the magazine, were produced using the improved process.

New Faces

The SERA Directors approved Mike McCown K4ITF as the new Kentucky Assistant Director, and Jay Campbell N4YMY as Virginia Assistant Director. Roger Gregory W4RWG was promoted from South Carolina Assistant Director to Vice-Director. Mike, Jay and Roger are introduced in detail elsewhere in this issue. Ed Frank KC4ED stepped down as South Carolina Vice-Director for medical reasons. The other Directors expressed their appreciation to Ed for his service.

Coordination Slowing Down?

Some directors reported the pace of coordination slowing down a little. Only a handful of new repeaters were coordinated on two-meters, reflecting the saturation level that band has reached. In most of SERA territory, new two-meter repeaters can be coordinated only in rural areas. 440 continues to grow steadily.

This slowdown reflected a nationwide trend reported at the NFCC (National Frequency Coordination Council) meeting at the Dayton Hamvention in May.

SERA President Don Williams W4VT leads the Board of Directors meeting in Pigeon Forge

"Unknown Repeater" List Dropped

The Board voted to stop listing repeaters as "unknown" in the Official Repeater Index published in the Repeater Journal. This listing of about 150 repeaters was intended to prod repeater owners to file delinquent SERA data sheets, or help clear the records of repeaters that are no longer on the air. (Data sheets are required annually for each repeater, and if they were not returned for three years, the repeater was listed as "unknown." An "unknown" listing did not necessarily mean that the repeater lost coordination).

Frank Lynch W4FAL reviews the Question Pool for Coordinator Certification at the Saturday morning training session.

The "unknown" listings did not clear up many mystery repeaters, but it did create some confusion in Washington. FCC Special Council Riley Hollingsworth cited the Unknown Repeater List as grounds for dismissing a complaint against an uncoordinated West Virginia repeater accused of causing interference to a coordinated repeater located in Kentucky. SERA's FCC Liaison, Frank Lynch W4FAL, is working with Hollingsworth to clear up the confusion.

Repeaters that had been listed in the "Unknown" column will be returned to the regular listings, and coordinators will use procedures outlined in the Coordination Policies and Guidelines to determine if those repeaters should lose coordination.

(Continues on Page 7)

Presenting the 45th Annual

SHELBY, NC HAMFEST

The Grand-daddy of them All!

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September 1 & 2, 2001

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FOR MORE INFORMATION CONTACT: **Norman Harrill, N4NH, No. 7 Skylyn Court, Asheville, N.C. 28806**

Applicants must bring original and photocopy of present license, any certificates and picture I.D. to the examination session. Make Checks Payable to WCARS/VEC for $8.00.

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COLOR

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LOCATION - Cleveland Cty Fairgrounds on U.S. 74 Business, at intersection of NC 180, 3-1/2 miles east of Shelby, NC.

FACILITIES - Indoor buildings for new equipment dealers. Over 15 acreas for all types of tailgating. Lots of FREE parking outside grounds.

REGISTRATION - $5.00 for pre-registration and $6.00 at the gate. All tickets good for both days. Children under 12 FREE. Pre-registration ticket requests received after August 26th will be held at the front gate.

OVER-NITE CAMPING - Facilities include over 40 sites with full hook-up, water, sewer and electricity. Sites available on a first-come basis and **none will be reserved under any circumstances.** Unlimited field space for self contained units.

- ✔ $15.00 per day for full hook-ups (Power, Water, Sewer)
- ✔ $10.00 per day - Camping with Power & Water
- ✔ $5.00 per day for Tent Camping (Space Only)
- ✔ $5.00 Add'l per day for Tent Camping with Power.

ATTENTION MOTOR HOMES: If you must drive your motor home away from your campsite, please notify the camping committee chairman, and receive your "Campsite Occupied" sign.

- The Shelby ARC reserves the right to limit the amount of flea market space which cannot be reserved, and is on a first-come basis, and not transferable. (The Cleveland County Fair Assn. has paved more of the flea market area.)

CHARGES: $10.00 for each 10-feet of space. Gates open at 0600 Saturday and Sunday. **VENDORS** - Requiring tents, contact: Robby Hamrick, WA4RH, P.O. Box 1408,Ellenboro, NC 28040, Phone: (828) 453-9121, E-Mail: wa4rh@rfci.net

- To be held **in Tent just below Fire Station.** 10:00 a.m. **Sunday School** will be followed by **Bingo** for ladies.

- **Will be held in the Fairgrounds Fire Station Meeting Room.**

1000 ARRL Forum by Dennis Bodson, W4PWF
1100 MARS forum by Sam Greer, K4SYR
1300 SKYWARN by Greg F. Sellers, WB4HRR.
1400 DX FORUM -

- Will be announced at the hamfest. For more info, contact Claude Oakes, NC4NC (704) 480-0050.

FREE PARKING - For Attendees - Across road from Fairgrounds Main Entrance on paved lighted lot.
HANDICAPPED & TAILGATERS use gate near intersection of Hwy. 74 Business and Hwy. 180

PLEASE NOTE - No X-rated Material to be displayed or sold. No Guns or any other type of weapons permitted at hamfest.
HAMFEST TALK-IN ON 146.28/88 - **HAMFEST INFO LINE** (Beginning Aug. 26) - Direct line at Hamfest Site: (704) 480-6928

Some of the motels in the area are listed below. They recommend that you call well in advance - reservations may be a problem.

SHELBY, NC MOTELS

Holiday Inn Express - (704) 480-0881
Hampton Inn - 1-800-HAMPTON
Super 8 Motel - 1-800-800-8000
(Formerly Freedom Lodge)
Days Inn - 1-800-892-0418
Econo Lodge - (704) 482-3821
(Formerly Governor's Inn)

KINGS MOUNTAIN, NC (Exit 8 - I-85)
Comfort Inn - 1-800-221-2222
Ramada Inn - (704) 739-2544

GASTONIA, NC
Mid-town, Howard Johnson, Scottish Inn, Knights Inn, Econo Lodge, Hampton Inn, Innkeeper

LINCOLNTON, NC
Town & Country

GAFFNEY, SC
Days Inn, LaDel Motel, Comfort Inn, Holiday Inn Express.

FOREST CITY, NC
Gardo's Big Horn, Goodes, Henderson Inn, Comfort Inn

HICKORY, NC
Howard Johnson, Holiday Inn, Mull's Ramada Inn.

2001 SHELBY HAMFEST PRE-REGISTRATION FORM

RJ-8-01

I would like to Pre-Register for The 2001 SHELBY HAMFEST!

Enclosed is my check for: _____ Hamfest Tickets at $5.00 each. Total:_____
Children under 12 years-old FREE!

Mail Completed Pre-Registration form with your check. Include SASE for return of your tickets.
This is a gate admission ticket order only. There is a separate ticket for flea market space. It will be $10.00 for each 10 ft. of space.

Call_____Name_____

Address_____

City_____State_____Zip_____

Phone: [ ] _____

Mail Completed Pre-Registration form with your Check, Please include S.A.S.E. for Return of tickets

MAIL TO: SARC
P.O. BOX 2206
SHELBY, N.C. 28151-2206

Pre-Registration Tickets Will Already Be In The Barrel.
Note: No member of the Shelby Amateur Radio Club or immediate family is eligible to win any awards.

Quality and Reliability... Inside and Out

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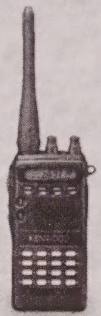
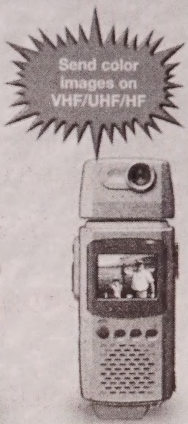


TH-22AT
2 meters

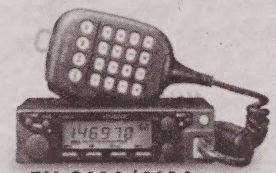
TH-G71A
2 meters
& 440 MHz

TH-D7A
2 meters &
440 MHz

TH-79AKSS
2 meters & 440 MHz



VC-H1
Visual
Communicator



TM-261A/461A
2 meters/440 MHz

TM-541A
1200 MHz

TM-331A
220 MHz

TM-742AD/642AD
2 meters & 440 MHz/2 meters & 220 MH

TM-G707A
2 meters & 440 MHz

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SERA Summer Board Meeting

continued from page 3

Coordinator Training, Testing

Amateur Radio FM Repeater Coordination grew out of nothing in the early 1970's, when it became obvious that some sort of plan was needed to prevent interference problems from ruining a mode that was rapidly growing in popularity. Early frequency coordinators did the best they could with the knowledge and tools at their disposal, and coordination councils around the country began setting rules and policies that created the workable band plans we enjoy today. Over the years, the tools have improved and the knowledge base has expanded considerably.

SERA is committed to high-quality frequency coordination, with each Director and Coordinator having access to those tools and understanding what it takes to use them effectively. In practice, this will allow coordinators to use things like terrain-modeling, signal and path prediction to determine where new repeaters can operate with a minimum of interference to existing repeaters.

At the past few Board meetings, SERA has conducted training sessions for Coordinators and Directors. At the June Board meeting, Frank Lynch W4FAL introduced the new SERA Coordinator Certification program. Certification will be based on passing a 40 question, multiple-choice exam. The exam is "open-book." Coordinators are not expected to memorize everything they need for the test, but they need to know where to go to find answers.

Directors Say "No" to Reduced Two-meter Spacing

Following the Board's decision last winter to reduce the UHF co-channel spacing guideline from 100 miles to 75 miles, the Directors looked at two-meters at the June meeting. And they quickly concluded that they would not do the same on two. The two-meter guideline will remain 100 miles, but Coordinators are free to coordinate repeaters with shorter spacing (or require wider spacing) on a case-by-case basis.

Form 03 Simplified

Form 03, SERA's Application for Frequency Coordination, has been simplified and reduced to two pages. Don Williams W4VT presented the new form. It's available in Adobe pdf format, along with all the other SERA forms and the Coordination Policy and Guidelines, on the SERA web site: www.sera.org.

Degrees, Minutes, Seconds

One area of confusion that's been cropping up on Form 03 has been the notation of geographic coordinates. Until the advent of the GPS receivers and mapping software, the practice of listing coordinates in Degrees, Minutes and Seconds was universal. But many GPS units and some map programs default to displaying them as Degrees, Minutes and "decimal Minutes" (Minutes and tenths/hundredths of minutes).

A common error is to take the values displayed in decimal Minutes and write them as if they were Seconds. For example, a location like **-78° 47.50'** (which shows decimal Minutes) could easily be mistaken to be **-78°47'50"**. It should be **-78°47'30"**. The error is about a third of a mile. Form 03 now explicitly requests coordinates in Degrees, Minutes and Seconds.

The January 2002 Board meeting is scheduled for Saturday and Sunday, January 5th and 6th, 2002, again in Pigeon Forge.

NHRC

REPEATER CONTROLLERS

NHRC-10 Advanced Repeater Controller

True Speech

- More than 90 real speech "canned" words in a 10 minute DVR used for controller messages and prompts.
- Four real speech ID messages you record yourself.
- Three real speech tail messages you record yourself.
- Speech can be custom recorded for local language support.
- Six-slot voice mailbox.
- Audio test mode records user's audio and replays to user.

Full Duplex Autopatch

- 100 autodial slots with an additional 10 Emergency autodial slots.
- Four area codes supported with grant/deny access control to each exchange.
- "Reverse Patch" & DTMF control over telephone with a dedicated DTMF receiver for telephone control.

Link Port w/ ICOM® CI-V Remote Control

- Allows remote base, link radio, or slave repeater to be connected.
- Unique courtesy tones indicate link/remote base status.
- Link port can have DTMF control.
- CI-V control of most ICOM® HF radios, including the IC-706 MkIIG to provide a frequency-agile remote base.

Other Features

- Separate control receiver audio input with dedicated DTMF receiver.
- LiTZ & 911 message support.
- Transmitter fan control output.
- Over 70 control operator functions with five saved setup states.
- Real sine wave audio tones.
- DTMF access mode.
- "Carrier", "Carrier and CTCSS", and "Carrier or CTCSS" access modes.
- Granular security allows tailored control operator access.
- Jumper-selectable audio de-emphasis for main and link receivers.
- Available accessories include an 8 port digital output board and a 19" rack mount case.

NHRC-10 Advanced Repeater Contoller **$449**

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CHARLOTTE, NC 28222-1136
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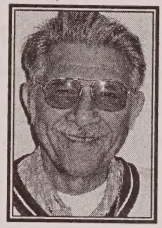
DEALERS! Take advantage of our early bird discounts!!!!

Frank Resigns SC Vice-Director Gregory Elevated to Position

Ed Frank, KC4ED, Vice-Director notified Director Bill Jones, N4MNH of his desire to resign.



Ed Frank, KC4ED

Jones said he reluctantly accepted Ed's resignation, and then nominated Roger Gregory, W4RWG be elevated from Assistant to Vice-Director

In his statement Ed said, "It has been one of the highlights of my career in Ham Radio serving with the most professional Amateurs in the world."

Jones said that Ed tried very hard to do a good job of Vice-Director, and that he wished him well for the future.

Ed, who for many years taught Amateur radio classes, had a little building behind his house dubbed the "Back Yard Schoolhouse" He was very proud of the many people who gained knowledge to become ham operators from the classes he and other local ham teachers taught in the "schoolhouse."

He was also very active in the VE program and participated in the local VE team for many years.

Ed first began with SERA as a correspondent for the Repeater Journal writing first a column for the eastern part of the state, then later covering the entire state.

He was appointed an assistant Director by Jones in 1998 and was elected to the post of Vice-Director for South Carolina in 1999.

Gregory New SC Vice-Director

Roger Gregory, W4RWG, who held the position of Assistant Director for South Carolina has been elected to fill the Vice-Director vacancy created by Ed Frank.

Roger Gregory, W4RWG

He will be the SERA frequency coordinator for the western half of the state, while Director Bill Jones, N4MNH, will coordinate the eastern half of the state.

Roger originally began working with SERA in early 2000 as a correspondent for the SERA Repeater Journal, a position he will continue to hold with his new position.

He lives in Union and is an active member of the local club, and repeaters. Roger has 25 years of Law Enforcement and is Captain of the Union County Sheriff's office.

Married 30 years to wife Kathy, who is a registered nurse, they have a daughter, Julie, age 20 who attends the University of South Carolina.

New Assistant Directors Named in GA, VA and KY

- Dave Shiplett, AC4MU for GA
- Mike McCown, K4ITF for KY
- Jay Campbell, N4YMY for VA

Recently, GA Director Rick Wright, W4LOC added a new Assistant Director for GA, Dave Shiplett, AC4MU, and at the June Board meeting two additional new Assistant Director appointments were made - one for Virginia - Jay Campbell, N4YMY and one for Kentucky - Mike McComb, K4ITF.

Georgia Assistant

Dave Shiplett, AC4MU continues his volunteer work for SERA as a Georgia Assistant Director. He started in 1985 when Georgia became a SERA state as interim Assistant Director. In the first ever election in 1987, he was elected GA Vice-Director and served that capacity thru 1988. Being Elected, he then served as Director of Georgia from 1989-1992. In 1993 he was elected President of SERA and served that post until 1998. Under the current president, Don Williams, Shiplett served as Special Assistant to the President, a position made available for liaison to the NFCC. In May of 2001 he was named to his present position of Assistant Director.

Dave Shiplet, AC4MU

Virginia Assistant

Jay Campbell, N4YMY comes on board SERA as an Assistant Director for Virginia, an appointment by Director, Don Williams, W4VT. Jay will be assisting his father Jim, K4YM, the current Virginia Vice-Director and Eastern Coordinator.

Jay was first licensed as KC4CVX a Technician in 1988 while attending his freshman year at Hamden-Sydney College. He upgraded his callsign in 1990 to N4YMY while attending the University of Virginia.

Jay Campbell, N4YMY

In order to graduate from UVA, he completed a senior thesis on Yagi-Uda Antenna Positioning. Jay has been an active member of the Richmond Amateur Telecommunication Society since 1988. Jay is married to Ruth (N3NEX) with one daughter, Megan, who can't reach the code key yet.

Kentucky Assistant

Mike McCown, K4ITF has been named an Assistant Director for Kentucky, by Director Jerry Shouse, N4EQT. Mike, 31 is a PCIA Certified Mobile Communications Technician and has 10 experience in commercial 2-way repair, low band thru UHF which includes repeater repair, cavity tuning and filters. He also has experience in microwave communications. and wan/lan computer services.

Mike McCown, K4ITF

Mike owns and operates two 220 repeaters, the 224.82 in Hazard KY, and 224.98 in London KY. I perform routines and measurements on two more 220 repeaters, the 224.52 in Dorton, KY and the 224.72 in Langly KY.

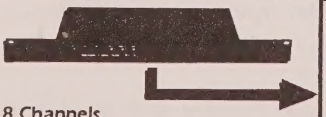
He also performs maintenance and upkeep of the dedicated 440 links between the four named repeaters.

His current job of field service for the commonwealth of Kentucky's microwave system allows him to travel through many counties in the southeast part of Kentucky throughout his workdays, Many of which are spent on mountain top communications sites that he maintains.

Mike said he enjoys being active on 2 meters, 220 and 440 while at work.

Also of lately he has become interested in the VHF contests, taking the place of his HF activity that diminishes greatly during the summer months.

Other pastimes include Hamfests, Motorcycles, Aviation, and Scuba diving.



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- Microprocessor Controlled
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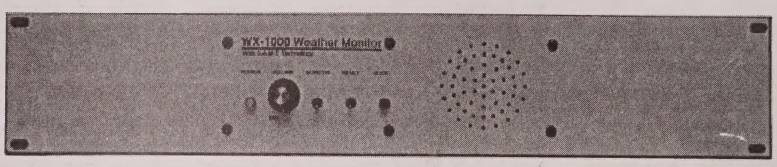
Computer Automation Technology Inc.
WX-1000 Digital Weather Receiver

The NOAA Weather Radio Network broadcasts National Weather Service warnings, watches, forecasts and other hazard information 24 hours a day. With so many unsettling weather conditions, don't you think its time to provide timely weather alerts for your repeater group?

Specific Area Message Decoder

A digital decoder responds to Specific Area Message Encoded (SAME) alerts transmitted by the NOAA weather station located in your area. Select your county code and the type of alert. Select warnings and or watches.



Voice Synthesizer Alert Message

Imbedded in the alert information packet is the time the warning or watch is in effect. The voice synthesizer will periodically key-up the repeater transmitter and announce the nature of the alert. "Severe Thunderstorm Watch" "Tornado Warning" "Winter Storm Warning" "Flash Flood Watch" "Hazard Material Warning" "Avalanche Watch" "Law Enforcement Warning" and "Civil Danger Watch" are just a few of the voice synthesizer announcements.

Alert Message Transmit Timing

At the conclusion of an alert, a termination packet turns the transmitter off.

Repeater Interface

The WX-1000 has been designed to easily interface to your repeater. A minimum of four connections is all that is required.

Weather Enable Input

Ground this input to provide weather reports on demand.

Weather Alert Log

The WX-1000 stores the date, time and type of alert in memory. Use the RS-232 port and the configuration program to down load the log.

Alert Start Logic Output

This output provides a TTL logic high when a weather alert is received. It can be used to set off an external alarm or trigger the controller to execute a macro or load a memory save.

Alert Stop Logic Output

Included in the digital packet is the length of the alert. The WX-1000 generates a stop logic output when the time period has expired. Use this output to reload a normal memory save.

Weather Disable Input

Ground this input to prevent future alerts once a sky warn net is activated.

Weather Data Output

The WX-1000 provides a raw data output to an alphanumeric pager or a computer based alarm system.

Ordering Information

WX-1000 *Digital Weather Receiver, With Windows Configuration Program:* ***$399.00.***

Computer Automation Technology Inc.
4631 N.W. 31st Avenue, Suite 142, Fort Lauderdale, Florida 33309
Phone: (954) 978-6171 - Fax: (561) 488-2894
Internet: http://www.catauto.com

Two Journal Writers Retire After Years of Service

-by Wayne C. Williams, Editor

The Happy Hamette
Cindy Rogers, KR4LS
And NC Correspondent
Gene Fegely, K3EJG

Everyone some time, some day, feels like it's time to call it quits especially when they are doing a volunteer job. Their interests change, their life changes, their thoughts change.

Such is what has happened to two of the Repeater Journal's Outstanding writers, both who have been with us for a very long time.

Cindy - The Happy Hamette

Cindy Rogers "invented" the column of "The Happy Hamette" for the Repeater Journal. She was the first ever long term writer the magazine had ever had. She started the feature written columns which now include four others which are so well received and play such a large part of our magazine

Cindy Rogers, KR4LS

Her humerous columns about women and their "spouces" created a whole new world of readership for the Journal.

In the early issues, she got a little static from some "modern-day" women, but overall, everyone was able to identify with her, and find her sense of humor something to look forward to with the coming of each issue.

She never tired of bragging about her "Radio Romeo" Jim Rogers, her husband. She always liked to include him in some of her stories, adding a bit of humor to the standard habits men sometimes get themselves into with amateur radio.

Cindy interviewed "Elvis" and had a talk with a repeater in some of her classic columns. She always pushed good operating practices, public service and club support in amateur radio.

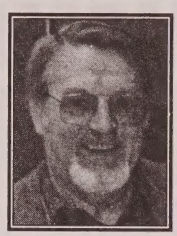
Her first column was in the November, 1994 Journal. She finished her last column earlier this year.

"The Happy Hamette" will not be replaced in the Repeater Journal, because there is no replacement for Cindy Rogers, KR4LS.

"Mr. NC" - Gene Fegely

Gene Fegely leaves us this issue with his final column about North Carolina hams, clubs and events.

Gene set the standard for writing columns about individual states in the Repeater Journal. Over the years he has written hundreds of short tid-bit items about thousands of hams, hundreds of clubs and countless events. For many years Gene drove across the state, visiting Field Day sites, shooting pictures, and writing about them.



Gene Fegely, K3EJG

His first column appeared 10 years ago in the November, 1991 issue.

* * * * *

We shall miss Cindy and Gene. They helped shape the Repeater Journal over the years to what we have today. They shine as a perfect example of the right way to do volunteer work. Do it right! Do it on time! And do your Best! As Repeater Journal editor over their stint of writing, I can only express my deep appreciation to their devotion and support in making our magazine the very best we can.

Mike Lewis Named New NC News Correspondent

Michael L. Lewis, WA4KE joins the Repeater Journal Correspondents staff as the new writer for North Carolina. Mike was highly recommended by his associates and was approved by the Journal staff. He will fill the slot of providing news coverage of hams and clubs in North Carolina.

Mike told the Repeater Journal that he grew up along the fence line of VOA Site C. He received an Electronics Engineering Technology Degree from Pitt Community College in 1983 and a Nuclear Engineering degree from the Univer-sity of Maryland in 1995.

Currently, Mike is employed by Underwriters Laboratories as an Engineering Team Leader.

Michael Lewis, WA4KE

He received his Technician License in 1995, upgraded through the ranks and received Extra Class License in April 2000. Mike is President of the Cary Amateur Radio Club, N4NC, and a member of the Smith Chart Amateur Radio Society, K4OO.

"As the NC SERA Correspondent, I will be emphasizing that the Amateur Radio Licensees support their local clubs, local public service events and hamfests, Mike Said, "I believe these three items will help to ensure a strong future for this hobby."

"If you have not contacted me to provide your email address or website, please send me this information so I can have a list of articles, upcoming events and announcements for the upcoming NC News columns," he added. "My first column deadline will be October 1 and I would like to have a column that will continue to well represent the North Carolina Hams and any upcoming events."

Mike said he appreciated the help and cooperation he was already receiving. He hopes to get much more after this announcment is published. He can be reached at: wa4ke@sera.org

MIKE COVERS NC NEWS

The TARA (Tri-State Amateur Radio Association)

Hamfest & Computer Show 2001

At the Veteran's Memorial Field House - 2590 5th. Ave.

Huntington, WV

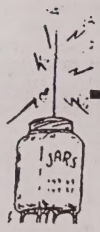
Saturday, August 11th

8:30 a.m. until 2:00 p.m.

Entrance Tickets - $5.00 - Food & Refreshments - Free Parking
Tables - $8.00 ea. - (Pre Paid by July 31)
$12.00 ea. (After July 31 or at door) - Electric hook-up $10.00
Setup times: Friday 5:00 PM to 11:00 PM and Sat. morning at 6:00 AM

ARRL-VE Testing for all Classes- Begins 10:30 AM

For more information or table orders Contact:
Ezra Taylor, N8KTA, P.O. Box 4120, Huntington, WV 25729 or call (304) 429-1667
E-mail: tarahams@juno.com
Talk-in on 146.76 repeater



13th Annual JARSFEST 2001

ARRL Sanctioned Hamfest

SUN. NOV 18
8:00 A.M. TO 4:00 P.M.

AMER. LEGION COMPLEX
Hwy. 301, N.
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Adv. Reg. $4.00 — At Door $5.00 — Child (Under 12) Free ,With Adult

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DRAWINGS: GRAND PRIZE – DUAL BAND 2 MTR/70 cm Transceiver

2nd PRIZE – Two Meter Mobile

INSIDE TABLES FOR RENT

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Inside Set up: 6:00 AM, RESERVE YOUR SPACE NOW

Out Door Tailgating
OPENS 6:00 AM

GREAT FOOD
Biscuits – Burgers – Dogs & More

NOTICE
Due to local ordinances and club policy, neither weapons nor pornographic material may be displayed or sold at the JARSFEST site.

Local Lodging:
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EXAMS BEGIN: 10:00 AM (SHARP)

Amateur Radio Exams (Courtesy of RARS VE TEAM)

WALK-INS ONLY. Bring your completed FCC Form, photo copy of your current license (if applicable), and photo ID. Cost payable at test site by cash or check.

To Reserve Space or More Information Call: (919) 894-3352, 894-3100, (7:00 PM – 10:00 PM)
E-Mail: blambert1@mindspring.com

Please Print Clearly — **JARSFEST 2001 Pre-registration** — Make Checks Payable To JARS

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ADDRESS _____

CITY _____ STATE _____ ZIP _____

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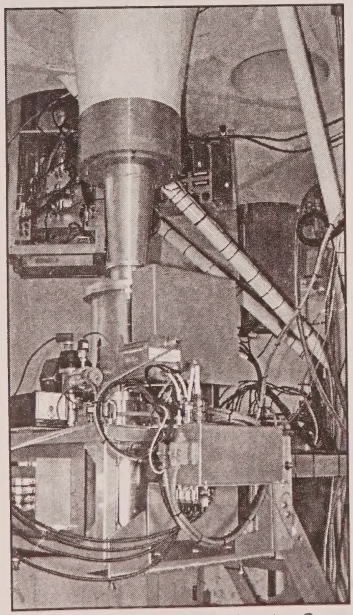
National Radio Astronomy Observatory Features Sophisticated Radio Receivers

-By Don Williams, W4VT

The National Radio Astronomy Observatory (NRAO) is a research facility of the U.S. National Science Foundation located in Green Bank, West Virginia, in Pocahontas County.

The gigantic 100-meter Green Bank, WV telescope sits pointed straight up. It is the world's largest fully steerable radio telescopewith 7300 metric tons of moving weight.



Inside operations of the 100-meter Green Bank Telescope are made up of complex cables, wires and mechanical devices.

NRAO provides state-of-the-art radio telescope facilities for use by the scientific community, conceiving, designing, building, operating and maintaining radio telescopes used by scientists from around the world.

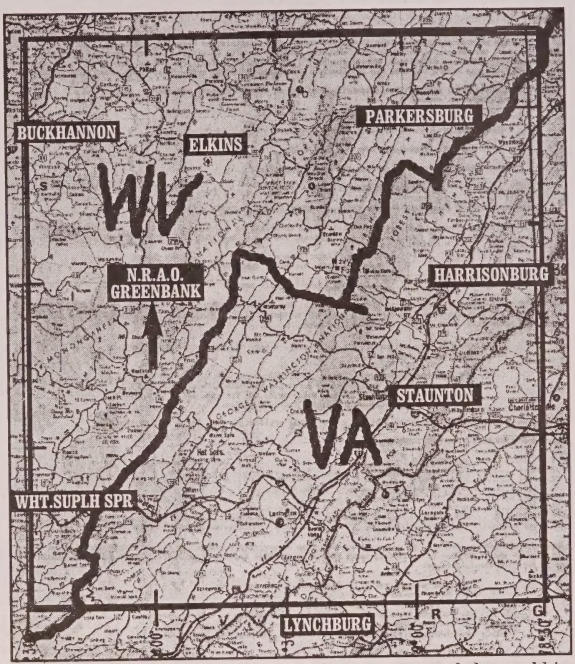
Scientists use these facilities to study virtually all types of astronomical objects known, from planets and comets in our own Solar System to quasars and galaxies billions of light-years away.

Since its beginnings in 1932, radio astronomy has profoundly changed our understanding of the universe in which we live. Quasars, pulsars and the remnant radiation of the Big Bang were discovered with radio telescopes. Radio telescopes today give scientists information about important aspects of planets, stars and galaxies that is not provided by other types of telescopes. Of the ten people who have received the Nobel Prize in Physics for astronomical research, six did that work using radio telescopes. It is the mission of NRAO to provide scientists with powerful radio telescopes that allow them to continue this exciting saga of discovery and understanding.

Founded in 1956, the NRAO has its headquarters in Charlottesville, VA, and operates major radio telescope facilities at Green Bank, WV, Socorro, NM, and Tucson, AZ. The NRAO is operated for the National Science Foundation by Associated Universities, Inc., under a cooperative agreement.

The telescopes of the National Radio Astronomy Observatory are designed to collect radio waves in an antenna, distribute this information through a correlator and then analyze the output with sophisticated software designed specifically for this purpose.

The newest telescope project of the National Radio Astronomy Observatory is the Atacama Large Millimeter Array (ALMA) Project. This endeavor includes the collaboration of



observatories from around the world in the manufacturing of 64 12-meter antennas. The site is located at an elevation of 16,400 feet in Llano de Chajnantor, Chile.

Just completed at Green Bank is the world's largest fully steerable radio telescope which is simply called the Green Bank Telescope (GBT).

Completed in the Spring of 1965, and also located in Green Bank is the 140 Foot Telescope. This telescope had its last observation run during the second quarter of 1999.

The Orbiting Very Large Baseline Interferometer (OVLBI) located in Green Bank is one of four NASA track-

(Continued on Page 14)

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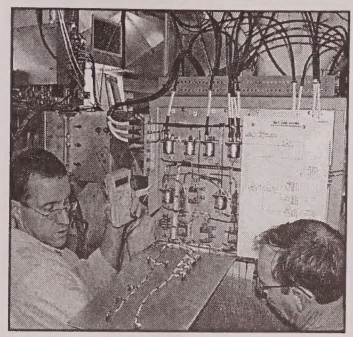
National Radio Astronomy Observatory

(Continues from Page 13)

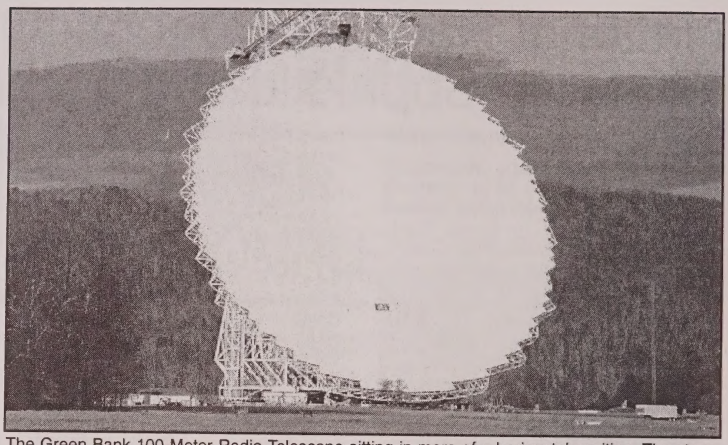
ing stations dedicated to the support of the Very Large Baseline Interferometry Satellites. These satellites extend the interferometry baselines beyond the diameter of the Earth.



The Very Large Array (VLA), made famous in the movie Contact starring Jodie Foster, consists of 27 antennas, each measuring 25 meters (81 feet) in diameter and weighing approximately 200 tons. It is located on the Plains of San Agustin, 60 miles west of Socorro, New Mexico.

The Very Long Baseline Array (VLBA), remotely controlled from the Array Operations Center in Socorro, New Mexico, is comprised of ten radio telescopes that work together as the world's largest, dedicated full-time astronomical instrument.

The VLA Expansion Project is a proposal to make the VLA a much more sensitive instrument. These upgrades include new antennas and fiber optic links to fill the baselines between the current VLA and VLBA, creating an instrument capable of producing higher resolution coverage. The enhanced (upgraded) VLA will be 100 times faster, more frequency-agile, and 50 times better at resolving details.



The Green Bank 100-Meter Radio Telescope sitting in more of a horizontal position. The steerable system went on line in august of 2000. The GBT was dedicated as the Robert C. Byrd Green Bank Telescope in a ceremony held in conjunction with the commissioning of the telescope.

At Green Bank NRAO maintains a visitor centers for tourists. Every year, thousands of visitors come to browse the visitor center and see the radio telescopes. Green Bank tours are given daily mid-June through Labor Day, beginning at 9am, every hour on the hour until 4pm. Tours are free. Cameras are welcome. Weekend Tours are given Memorial Day weekend to mid-June and during September and October.

Special tours for groups can be arranged by emailing Sue Ann Heatherly at sheather@nrao.edu or by mail at: NRAO, P.O. Box 2, Green Bank, WV 24944

100-meter Green Bank Telescope

The Green Bank Telescope is the world's largest fully steerable radio telescope. It is located in Green Bank, Pocahontas County, West Virginia (79° 50' 23.40" W, 38° 25' 59.23" N).

The GBT achieved "first light" at 403 MHz on August 22, 2000 with observations of the radio galaxy 1140+223 and the pulsar B1133+16. The GBT was dedicated as the Robert C. Byrd Green Bank Telescope in a ceremony on August 25, 2000. Outfitting and commissioning of the GBT commence this autumn (2000).

The GBT is described as a 100-meter telescope, but the actual dimensions of the surface are 100 by 110 meters. The overall structure of the GBT is a wheel-and-track design that allows the telescope to view the entire sky above 5 degrees elevation. The track, 64 m (210 ft) in diameter, is level to within a few thousandths of an inch in order to provide precise pointing of the structure while bearing 7300 metric tons (16,000,000 pounds) of moving weight.

The GBT is of an unusual design.

(Continues on Page 15)

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National Radio Astronomy Observatory

(Continues from Page 14)

Unlike conventional telescopes, which have a series of supports in the middle of the surface, the GBT's aperture is unblocked so that incoming radiation meets the surface directly. This increases the useful area of the telescope and eliminates reflection and diffraction that ordinarily complicate a telescope's pattern of response. To accommodate this, an off-axis feed arm cradles the dish, projecting upward at one edge, and the telescope surface is asymmetrical. It is actually a 100-by-110 meter section of a conventional, rotationally symmetric 208-meter figure, beginning four meters outward from the vertex of the hypothetical parent structure.

The GBT's lack of circular symmetry greatly increases the complexity of its design and construction. The GBT is also unusual in that the 2,004 panels that make up its surface are mounted at their corners on actuators, little motor-driven pistons, which will make it easier to adjust the surface shape. Such adjustment will be crucial to the high-frequency performance of the GBT in which an accurate surface figure must be maintained.

The GBT is equipped with a novel laser-ranging system. Beams of light are reflected within the structure and between the telescope and a series of ground stations surrounding the telescope in a broad ring. Monitoring of these beams will show the deformation of the figure under such stresses as gravity, wind and temperature differences, and allow the telescope's motors, subreflector and surface panel actuators to compensate for any ill effects.

How the National Radio Quiet Zone affects you

Ham Operators and Repeater Owners

-By Don Williams, W4VT

Some operators of repeaters in SERA territory are affected by something called the National Radio Quiet Zone (NRQZ). A full-time person administers the NRQZ from the National Radio Astronomy Observatory (NRAO).

The NRQZ was created to protect sensitive operations at the National Radio Astronomy Observatory at Green Bank, West Virginia, and the Department of the Navy research facility at Sugar Grove, West Virginia. Its NAD 27 boundaries are North latitudes 37o 30' and 39o 15', and West longitudes 78o 30' and 80o 30'.

Part of Virginia and West Virginia, in both SERA and T-MARC territory falls into this rectangular-shaped quiet zone.

If you have any questions about the procedure, please contact your frequency coordinator. The current contact person at the NRAO is Wesley A. Sizemore. His telephone number is 304-456-2107. When you contact him, tell him what your intention is and request the form, "AGREEMENT: NRAO and AMATEUR REPEATER/BEACON." SERA Coordinators do not require a copy of it, but FCC Rules 97.3(w) and 97.107 require adherence to the requirements of the NRQZ. You may also want to check the NRQZ web page at: www.gb.nrao.edu/nrqz.html.

Compliance may require shutting down your facility for periods that NRAO may request, or no action whatsoever. Criteria used by the NRQZ to determine necessary action depends upon the signal that your facility emits into the affected area and the particular frequency that is currently being monitored by either the observatory in Green Bank or the Navy facility at Sugar Grove. They have the right to request you at any time to either reduce power or shut down for a specified period of time unless you are operating under emergency conditions as defined by FCC rules.

Here is complete contact information:

Interference Officer,
National Radio Astronomy Observatory
Post Office Box 2
Green Bank, WV 24944-0002
Telephone: 304-456-2107
Fax: 304-456-2276
Email: wsizemor@ gb.nrao.edu

More Hamfest Coverage

Left: Bill Cross, W3TN, from FCC Washington is presented a special plaque by Ray Adams, W4CPA following his presentation at the Knoxville Hamfest on June 9.

Below: An overflow crowd at the Gainsville Hamfest on July 14. The Lanierland club said it was the biggest and largest show they had ever presented.

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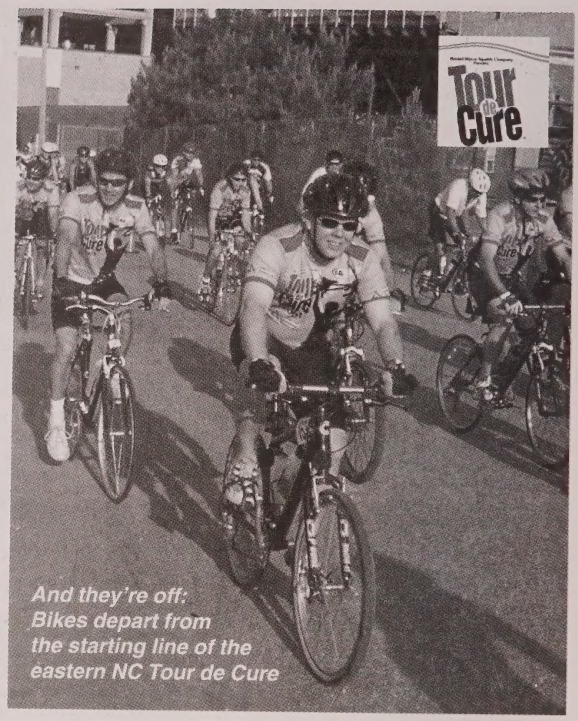
SouthEast Hams Pitch In for Public Service

Hams across SERA territory routinely prove that repeaters are "public service machines" by providing communications for charity fund-raisers.

This spring in **Tennessee**, three clubs pitched in for the **Tour de Cure**, a benefit for the American Diabetes Association. There were two "legs" of the ride - Nashville to Chattanooga and Chattanooga to Knoxville. Rick Willis, East Tennessee tour director, reports $ 108,000 was raised on the Chattanooga - Knoxville segment.

Jonathan Guy, KE4AIK, gives credit to the Lakeway Amateur Radio Club, Ocoee Amateur Radio Society, and the Chattanooga Amateur Radio Club. Members from all three clubs participated Saturday and Sunday monitoring rest stops and keeping track of riders in vehicles. He also reports the McMinn County Amateur Radio Club was a big help when they offered their 145.310 repeater for communications. Jonathan said "we used the 145.310 machine on day one and about half of day two until we moved over to the 146.790 machine owned by the Chattanooga club. The Ocoee group had their 442.925 repeater linked into the west leg just in case we needed to communicate between the east and west legs. Truly, a team effort." The three clubs offered support to the 236 cyclists who participated.

Thanks were also extended to Phil Venable K4MCD, Rod Young KF4UWL, and Wallace Brown, KD4XV, for their work making the Tour de Cure a success. And our thanks to Jonathan for sharing this information with the Journal.



And they're off: Bikes depart from the starting line of the eastern NC Tour de Cure

Another coalition of radio clubs in **North Carolina** also helped the ADA in a first time Tour de Cure running from near Raleigh to the Outer Banks in May. This course ran 180 miles over two days. More than 40 hams were kept busy.

On Saturday, all the lead riders were thrown to the ground by a bad railroad crossing. One rider was taken to the hospital with a broken arm, and hams monitored the crossing to slow bikes down the rest of the day. A frontal passage overnight brought cooler temperatures, but also a brutal headwind and 35 mph gusts across two narrow, 3-mile-long bridges. The ham-provided SAG vehicles carried all 120 bikes safely across both bridges.

Clubs participating were the Raleigh Amateur Radio Society, the Brightleaf Amateur Radio Club, the Columbia Emergency Repeater Assn., the Tar River Amateur Radio Club, the Outer Banks Repeater Assn., the Roanoke Amateur Radio Society, The Albemarle Amateur Radio Society, the Fessenden Amateur Radio Club, The East Carolina University ARC, and several ARES groups. Linked repeaters, part of the Coastal Emergency Linking Network, included 145.27 Farmville, 147.12 Rocky Mount, 145.41 Williamston and 146.835 Columbia. Pictures of the event can be seen on the web at

www.rars.org/gallery.

In June, Members of the Mecklenburg (**North Carolina**) Amateur Radio Society participated in the **MS Challenge**, sponsored by the National Multiple Sclerosis Society.

The MS Challenge was a nationwide pilot event, a 50-mile walk from Hickory to Charlotte, NC. Fifty-two walkers from five states participated in the event and raised an awesome $135,000.

NATIONAL MULTIPLE SCLEROSIS SOCIETY

The event started Saturday morning from Catawba Valley Community College with an impressive opening ceremony at 10:15 a.m., followed by a 19-mile walk from Hickory to Lincolnton. Rest stops were placed every 4 miles on the route. Sunday morning the event started bright and early at 7:00 a.m. with a 20 mile walk from Lincolnton to Gastonia. The walk on Monday was 11 miles into Charlotte.

Communications were coordinated by Tim Slay, N4IB with help from MARS members Mary, Hunt N4MH, Tom Hunt KA3VVJ, Frank Halloway N4WIK, David Leonard AE4AT; and Bob Cole KD4IIN.

Communication was provided to the rest stops, between the event directors, SAG vehicles, and David Leonard who was bicycle mobile. The 145.17 repeater was used on Saturday and the 145.23 repeater was used on Sunday.

Max Bloodworth KO4TV picks up pooped peddlers. NC hams provided over 20 SAG Wagons

Dayton Hamvention 2001 and Some Special Hospitality

-Roger Jefferson, AC4U – Graham, NC

The Alpha House Bed & Breakfast in Alpha, Ohio was our "home" during the Hamvention.

The decision to attend Dayton Hamvention 2001 wasn't made until a couple of months prior to the event. It isn't recommended to wait so late since most area accommodations are booked long before the Hamvention.

After searching the Internet and placing a few phone calls I found an available room at Alpha House Bed & Breakfast in Alpha, Ohio. Alpha is a small community just outside the city limits of Dayton. There was a draw back to the room available which was a shared bath. I was reluctant to reserve this accommodation since my wife, Doris, was accompanying me. Alpha House B&B owners Jackie and Bob Johnson informed me two older gentlemen, repeat guests, would be sharing the bathroom with us. Once assured everyone would be considerate of the others reservations were made.

Upon arrival at Alpha House B&B the first impression is the uniqueness of the building. The old, big, L-shaped, two-story brick building and location next to what was once a railroad gave every indication that the building was previously used for commercial purposes. Shutters, curtained windows with electric candles in each, wooden fencing, plants, flowers and well kept lawn highlight the structure and area's present use.

Later we discovered the building, constructed in 1843, originally served as a general store and later as United States Post Office for Alpha. The long abandoned railroad bed beside the Alpha House B&B is now paved and serves as a biking trail, The Little Miami Scenic Trail, part of an 80-mile trail network.

Jackie greeted us at the door with a warm and friendly reception. Shortly after arriving she politely informed us that photos of guest are made for a photo album. The photo album resides on a small end table next to a love seat in the commons area for all to see. Jackie fondly recalls most guest as if they are family. The first floor of Alpha House is mostly a large open room with well appointed dining, kitchen and living areas. A television in the commons area is tuned mainly to the weather channel when on. Doris and I found the available full kitchen convenient. There is also a half bath and small front room used as a sitting area and office on the ground floor. I couldn't help but imagine the way the interior of the building might had looked while it served as a general store or post office.

Jackie showed us to our room. There are three upstairs bedrooms with one having a private bath and the other two sharing a bath. Hams occupied all rooms. Our room was big with a large closet, cabinet and TV. The bed is big and high with an attractive bedspread handmade by Jackie. The bathroom is down the hall with a sink inside and outside for convenience. Alpha House B&B has central air and heat but we found the use of a pedestal fan in the bedroom comfortable. All guests were repeat visitors except Doris and myself. The others had reserved accommodations one year in advance and had been doing so for several years.

We slept comfortably and awakened the next morning to the smells of fresh coffee and breakfast cooking. Normal serving times are 8 to 10AM. To accommodate hams, Bob and Jackie served breakfast at 6:30AM. The earlier serving time allowed time to eat and commute 20/25 minutes to arrive at Hara Arena prior to opening. The bountiful full breakfasts include waffles, mixed fruits, eggs served differently each day, monkey bread, crumb cake, juice or milk and coffee. To further accommodate guests special breakfast request are considered. While eating breakfast another guest invited me to commute with he and friend to the Hamvention. My plan was for Doris to serve as my personal taxi service. To her relief I accepted the offer. She toured and shopped while I was at the Hamvention.

Doris and I agreed I would spend one day at the Hamvention and the next day together touring. The area provides much to see and do. After spending a day on my feet at the Hamvention I was ready for activities involving being mostly off my feet.

Hamvention 2001 was filled with vendors offering most anything you could imagine with plenty of bargains.

Jackie and Bob provide bicycles for guests. We rode on the bike trial roundtrip to and from the neighboring town of Xenia. The host's hospitality was extraordinary. Our reservation for next year was made before checking out. We look forward to returning to Alpha House B&B and Hamvention 2002!

KY School Kids Talk to Susan Helms on ISS

-From The ARRL Letter

US Astronaut Susan Helms, KC7NHZ, took the microphone of NA1SS aboard the International Space Station May 31 to respond to questions from students at Davies County High School in Owensboro, Kentucky. The contact marked the 15th Amateur Radio on the International Space station QSO and the second with a Kentucky school.

"Welcome onboard Space Station Alpha. Go ahead with your questions," Helms invited. Eight students obliged with a dozen questions.

Helms told the high schoolers that if the station's communication systems were to fail, "we always have our ham radio, which we could use also to call people," she said. She told another questioner that she had been getting on the air from the ISS "on and off" depending on the crew's work schedule. She said she'd made a few contacts that morning. "I try to come to the ham radio and talk to people as much as I can," she said.

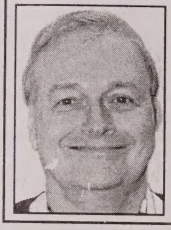
Helms said the international nature of the ISS program has involved having to deal with different languages and cultures. "My crewmates - Yuri and Jim - and I have worked very hard to become bilingual," she said, referring to cosmonaut Yuri Usachev, RW3FU, and astronaut Jim Voss. "All three of us have become bilingual so that we can communicate and talk in either Russian or English, and we're doing that extremely successfully," she said. In the future, she said, the ISS will have to become multilingual and multicultural.

Helms also told the students that NASA already was making plans to travel to Mars, "probably with international help." She called The Red Planet the most feasible target for an interplanetary space mission carrying human passengers.

Helms said she and the crew enjoy their "wonderful work" aboard the ISS but miss families and friends on Earth.

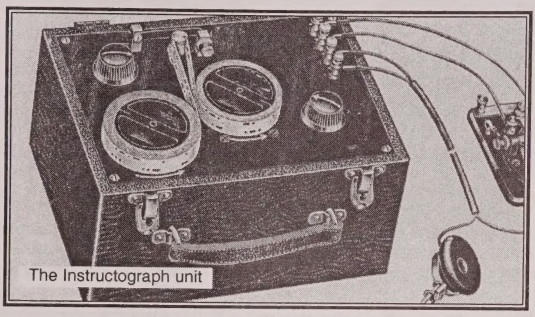
The audience of students and guests included ARRL President Emeritus George S. Wilson III, W4OYI, who lives in Owensboro. The event also attracted local news media coverage.

"We really are smiling ear-to-ear down here," Steve Morgan, W4NHO, said after the 10-minute contact. Morgan provided technical support at the school. The contact was made via AH6NM in Honolulu, and the audio was telebridged to the school.



Nostalgic Wavelengths

DAVID BOWER K4PZT
d.bower@ieee.org
P.O. BOX 10145
KNOXVILLE, TN 37939



The Instructograph unit

Although several of the tailgaters had their vehicles covered because of the rainy weather, the recent Dayton Hamvention was still alive with activity. An ocean of old ham gear, parts and other "goodies" were, so to speak, like waves from the past. One guy had his collection of old keys displayed. Another had really ancient items like BC-348 receivers and ARC-5 transmitters. But the ham who had travelled from the west coast caught my eye. Spread across his table, behind his car, were keys, an Ameco code practice oscillator, and four wooden devices stacked on top of each other. I immediately knew what I'd located - they were

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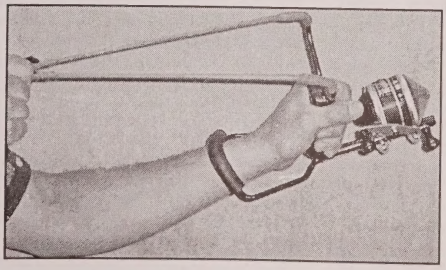

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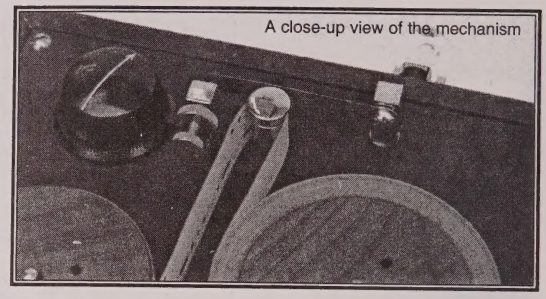
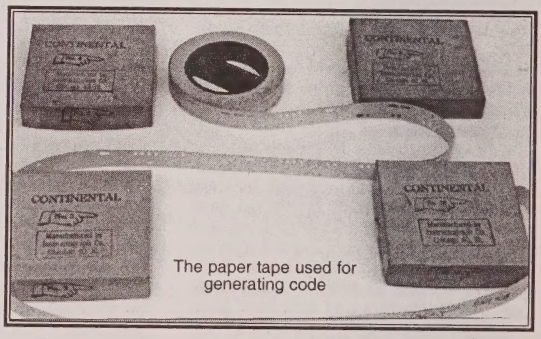


A close-up view of the mechanism

Instructograph code practice machines. Two were powered by conventional AC power; the other two were the old hand crank variety with wind up spring power. The latter device used a battery to operate a buzzer for audible code.

I soon struck a deal with the guy, and he was helping me load the units, along with a bag of paper code tapes, on my two wheel dolly.

In the 1950s (and before) aspiring hams learned to copy code by using these mechanical devices to play back code. The device had a metal contact breaker that made electrical connection as perforated paper tape (with dots and dashes) passed by. The paper tape was wound on a wooden spool and was threaded into the mechanism much like an audio reel-to-reel deck. A second wooden spool took up the slack, and moved the paper code tape forward. The speed was varied with a rheostat. A pair of headphones were secured to binding posts for listening to the audible code. There were various paper tapes available with different content so the user had a variety to select from. The instruction book emphasized that learning code was based on psychological attitude,



The paper tape used for generating code

regularity of practice, timing of characters and persistency. Further, the feeling was that natural ability accounted for 5 per cent of the effort, psychology another 10 per cent, and study and practice accounting for the largest percentage; 85 per cent. The code practice unit, manufactured by the Instructograph Company, Chicago, Illinois, was the standard tool of the day for learning the Morse code. Later, audio tape machines and code practice records started to emerge and finally replaced this device as the standard tool for learning code.

The Instructograph manual

My effort at learning code back in the 1950s was a hybrid approach consisting of an Instructograph unit, code practice records, and listening to code on the 40 meter Novice band. All worked and helped me along toward passing the code requirement for obtaining an amateur radio license. But the sturdy Instructograph remains etched in my memory as the most practical tool of the day for learning Morse code.

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_____ Commercial 8' Tables for both days ----- $30.00 ..... _____

_____ Electrical Outlet for both days ---- $40.00 ..... _____

_____ Outdoor Tailgate (ADVANCE REGISTRATION RECOMMENDED)..... $20.00 _____

S.A.S.E. Required - Make Checks & Money Orders Payable to " TRCI " TOTAL _____

Dealer Load-In - FRIDAY mid-afternoon 9/21 until 10PM

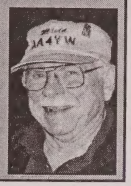
Doors open to dealers again at 6AM, Saturday morning 9/22

TICKETS ARE REQUIRED when renting Commercial Tables and Tailgate Spaces.

Local ordinances and Hamfest policy do not permit firearms or pornographic material to be displaye or sold at the show. Thank you for adhering to this policy.

Let's Look at it- this way!!

Marvin Whatley AA4YW
4010 Schooner Circle
Oriental, NC 28571
(919) 249-0047
aa4yw@sera.org



I had a Dream

Sometimes when you make an inquiry what you learn is that you should never have asked the question. When I see something that doesn't look quite right to me I usually say something about it.

And usually (as a matter of fact) I am told to back off and let things alone. But I always come back to explain, "I don't think you understood me . . ." When I am chased off the second time I quit - unless it really irks me.

There is a procedure promulgated by the voice traffic nets in North Carolina (and several other southern states) that goes something like this: After preliminaries and checking with liaisons the net control station (most of them) will take checkins according to the suffix of their callsign. He will say, "First we will invite the privileged group, Alpha through Golf . . ." When he has all of these he will say, "Now anybody in the first half of the alphabet, Alpha through November . . ." When these checkins are made comfortable he will say, "Now we are opening it up, excluding only the forbidden group, Uniform through Zulu, who will have to wait until after everybody else."

At this time quite a bit of traffic gets assigned and there are several rechecks from earlier checkins with things they forgot to mention and a couple of quick QSO's to tidy up loose ends. The net has been in session for several minutes, maybe ten, and they are getting quite a few things done when it occurs to the NCS that he's missing something. He reluctantly says, "OK, we might as well do it, let's go all the way through the alphabet. If there is still anybody out there, you have fifteen seconds to check in." Now this includes stragglers from all of the previous groups as well as those who happen to have very very bad callsigns. The end of the alphabet has been getting a little antsy so, of course, there is some doubling. The NCS has been messing around with this checkin business for a long time; he doesn't have all day, and it's time to pass some traffic. In another ten or fifteen minutes he will call for late checkins, and anyone who wasn't quick enough or strong enough can get in then. Some NCS use softer words and euphemisms to disguise what they are really doing.

This is what seemed to me to be not quite right. I was told that there were many very good reasons for keeping this policy, the most significant being, "you have to have some system," and "this is the way we have been doing it for a long time." Indeed, it has, for generations, been passed down from net manager to net manager, and each new NCS gets a package of instructions in which this is included. I had already gone through the "You don't understand" phase and it still really irked me so I figured the next thing to do was get some hard data. I could not believe that I was the only one with a black callsign who resented this discrimination. I noted that there were several others who checked into the nets with me who had alphabetically challenged suffixes, but most had moved up to liaison or higher functional positions so as to be immune to the prejudice. The key might be in the response of the casual surfer who happened to stumble into the traffic net. He might return and develop into a regular member, or he might not. I could imagine that a ham with a call of AZ4AA might feel well treated and have fun on the traffic net while one with a call of AZ4ZZ might find it less fun than he hoped. This filtering would affect the ultimate constituency of the net. There ought to be data out there somewhere to support this hypothesis. Spurred by a fresh adrenalin rush, I launched my research project.

The first thing I realized was that I needed a data base larger than just the North Carolina nets. I would canvas the entire eastern US. It would be ideal to have a list of how often who checked in to each traffic net that practiced discrimination, but such a compilation does not exist. Despairing of checkins I next thought of traffic handled. This is not the same thing but QST list the Brass Pounders League and traffic handled by call sign for each section for each month (in small print). I faced the reality that these listings do not distinguish voice nets from CW nets (where this discrimination does not exist) or digital modes (which may involve no net at all). Laboriously I could ask each listed ham from this set of several hundred what fraction of his traffic was on a SSB net, but the list might be cut down by looking only at nets that used the offending procedure. I got as far as this first phase.

The ARRL web site (members) lists all traffic nets giving the net manager for each.

From this I copied the names all of the SSB traffic net managers on the east coast and sent a radiogram to each asking whether their nets discriminated against the high-letter suffixes during checkin. The first thing I learned is that ARRL does not bother to maintain its lists. Some of the hams listed as net managers had moved on maybe ten years ago and one said he did only CW and had never checked into a SSB net in his whole life. The valid responses I did receive were so confused that I was forced to abandon the quest. Among the interesting facts, however, was that alphabetic checkin is practiced by less than half the SSB nets, and that many who do practice it incorporate several variations and modifications that ameliorate the impact and frustrate this study. Some in the Northeast were aghast that such a practice was ever used (yankees, in spite of some notable faults, disfavor discrimination). There were only a couple that said, in effect,

"YEAH, so What!!"

So the hypothesis is untested and you will never know how many hams in the Uniform through Zulu group are playing with other things than traffic because of their dubious welcome. If you poll the hams who still frequent the traffic nets you will find that most of them think the present policies are just fine - probably for the same reason that a majority of licensed hams now think the requirement of CW should be abolished.

Thanks For Making Our 2001 Show a Great Success
We Appreciate Greatly the Record Attendance!

Get Ready for Next Year - It Happens Again

SALISBURY (NC)
FIRECRACKER HAMFEST
July 6, 2002 - Same Place - Same Times! Same Great Food & Fun!

Any Advance Questions - Contact Ralph Brown (704) 636-5902
(More Information on our 2002 Show in Future Repeater Journals)

TECHNICAL ADVICE

-by Randy McKenzie
k4yfv@hotmail.com

Are we Hams next?

Recent changes in New York State law has made it illegal to operate a cellular phone while driving. We have all noticed that swerving driver that we first think is drunk . . . Now before you tune me out thinking "politics" let me approach the point this way. Technically, how much more would it take for lawmakers to outlaw mobile Ham rigs???? They could argue the safety issue, but can we hold them off?

The understanding that I have is the states cannot regulate Hams like the FCC. But they CAN regulate that vehicle that you drive on THEIR highways.

Standing on my stump for a moment, let me ask you : How far are you willing to allow state and federal governments to control your daily life? I dont think we will be communists or something, but I do think the government is trying to grow a little more than they should. Somewhere along the lines we as citizens need to say, leave us alone, we will take responsibility for our own actions. I get into my pickup, buckle the belt, drive close to the speed limit, and attempt to be as safe as possible. Do I really NEED some politicians deciding what my hands do while driving?

I understand the safety issue. We have discussed here many times about installation and operating our mobiles, but have you stopped to think about what could be next from the lawmakers? Dont be too fast to say we are protected by "providing public safety communications". You will get to keep your CB I think because the unions will protect the truckers . . .

My point is thank you Mr. Politician, but there is a limit to your control. That was spelled out by our founding fathers. Why am I a radical? I actually believe that I am responsible for my own actions.

THE SERA OFFICIAL REPEATER INDEX

FOR: GEORGIA ■ KENTUCKY ■ MISSISSIPPI ■ NORTH CAROLINA ■ SOUTH CAROLINA ■ TENNESSEE ■ VIRGINIA ■ WEST VIRGINIA

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Some repeaters allow voice as well as other functions on their machine. Operators should check with owners for additional information about what is allowed, and what features are available. Digital Repeaters with normal input/output (pairs) are listed in the regular FM repeater index. Digital systems operating simplex are not coordinated by SERA and are not on our repeater lists. For tone-accessed repeaters, the codes column contains the tone or access code for those repeaters which the owner or trustee has given us written permission to publish. They are in the By-State, and By-Frequency listings.

Entries with "#" in front of city indicates repeaters added to this index that have not been coordinated through the local SERA state coordinator. Owners may work with their coordinator to get this indicator removed. Repeater frequencies which have been coordinated but may not yet be on the air are listed with "PROP" showing in the codes column. Unknown listings are in a separate area.

Repeater owners are reminded to contact their local Frequency coordinator (Director) for assistance in coordination, changes in their listings, or any other requirements. There is no charge. The annual SERA repeater datasheet, sent to all known repeater operators, should be accurately updated each year and returned to SERA

SERA RECOMMENDED FM VOICE SIMPLEX

10 Meters:	29.600#						
6 Meters:	52.490	52.525#					
2 Meters:	146.400*	146.415*	146.430*	146.445*	146.460*	146.475*	146.490*
	146.505*	146.520#	145.535	146.550	146.565	146.580	146.595
	147.405*	147.420*	147.435*	147.450*	147.465*	147.480*	147.495*
	147.510	147.525	147.540	147.555	147.570	147.585	
220 MHz.	223.400	223.420	223.440	223.460	223.480	223.500#	223.520
	223.540	223.560	223.580	223.600	223.620	223.640	
440 MHz.	445.825	445.875	445.900	445.925	445.950	445.975	446.000#
	446.025	446.050	446.075	446.100	446.125	445.150 (Not all listed)	

* Permitted for Voice Simplex use unless operation would cause interference to repeater inputs. Be aware that SERA coordinates some of these frequencies as repeater inputs in some areas.
\# - Designated National Simplex Frequencies.

SERA RECOMMENDED DIGITAL/PACKET SIMPLEX

2 Meters:	144.910	144.930	144.950	144.970	144.990	145.010	145.030
	145.050	145.070	145.090	145.510	145.530	145.550	145.570
	145.590	145.610	145.630	145.650	145.670	145.690	145.710
	145.730	145.750	145.770	145.790			
220 MHz.	223.660	223.680	223.700	223.720	223.740	223.760	223.780
	222.350 - 222.450 (222.400 Center) - High speed digital channel (100 KHz wide)						
	223.800 - 223.900 (223.850 Center) - High speed digital channel (100 KHz wide)						
440 MHz.	440.9125	440.9250	440.9375	440.9500	440.9675	440.9750	440.9875
	441.0000	441.0125	441.0375	441.0500	441.0625	441.0750	441.0875
	441.1000	441,1125	441.1375	441.1500	441.1625	441.1750	

NOTE: Digital operators are reminded to check with their local Digital/Packet Societies or organizations as to which digital/packet channels are available for various digital usage in their particular area. Some channels are for exclusive use of LAN or BBS, etc. usage.

SERA JOURNAL REPEATER LISTINGS BY STATE - BY CITY

Listings Correct as of July 20th 2001

PLEASE NOTE: CTCSS Tone Frequencies are listed for repeaters only if the repeater sponsors agree they be listed. Tone access listing does not indicate a closed repeater.

GEORGIA

10 METERS

CONYERS	AI8H	29.680	-		
DALTON	N4BZJ	29.680	-		☺
#MACON	KF4XH	29.620	-	UNCOR	
MONROE	KQ4XL	29.620	-		
VALDOSTA	KB0Y	29.680	-	PROP	☺
WARNER ROBINS	WR4MG	29.660	-		☺

6 METERS

ATL/MARIETTA	KD4DKW	53.090	-	T118.8	☺
ATLANTA	KA5WZY	53.150	-	PROP	
AUGUSTA	W4WTA	53.030	-		☺
BISKEY MT.	KC4JNN	53.050	-	T100.0	☺
BOLINGBROKE	KR4OL	53.430	-		
CARTERSVILLE	WB4AEG	53.070	-	T123.0	
CONYERS	WB4JEH	53.550	-	T151.4	
#CONYERS	WB4JEH	51.550	+	UNCOR	
CRAWFORD	KD4FVI	53.330	-	T88.5	
#CUMMING	WA4YNZ	51.700	-	UNCOR	
DALTON	N4BZJ	53.130	-		☺
DECATUR	KA4UFM	53.390	-	T	☺
HIAWASSEE	KC4CBQ	53.270	-	186.2	☺
IVEY/MACON	K4YC	53.730	-	T88.5	☺
KINGSLAND	KC5BMJ	51.940	-	T82.5	
LAKE PARK	KB0Y	53.890	-	T141.3	☺
LAWRENCEVILLE	W4GR	53.110	-	82.5	☺
LULA	WB4HJG	53.890	-	T82.5	☺
#MACON	KF4XH	53.390	-	UNCOR	
MARIETTA	N1KDO	53.210	-	T79.7	☺
MARIETTA	KF4BMG	53.250	-	T79.7	
#PINE LOG MT.	KD4APP	53.450	-	UNCOR	☺
#PINE LOG MT.	K4PLM	53.290	-	UNCOR	☺
#ROSWELL	WA4YNZ	53.010	-	UNCOR	
WARNER ROBINS	WR4MG	53.790	-		☺
WATKINSVILLE	KD4AOZ	53.570	-	T123.0	

2 METERS

ADAIRSVILLE	WD4IWL	146.685	-		
#ALBANY	W4MM	146.700	-	UNCOR	☺
ALBANY	W4MM	146.730	-		☺
ALBANY	W4MM	146.820	-		☺
ALLENHURST	KF4ZUR	147.270	+	PROP	
AMERICUS	W4VIR	147.270	+		
ASHBURN/TIFTON	W4PVW	147.285	+	T103.5	☺
ATHENS	KD4QHB	146.745	-		☺
ATHENS	KD4AOZ	146.955	-	PROP	
ATHENS/CRAWFRD	K4TQU	147.375	+	127.3	☺
ATL/UNION CITY	WA4UPE	146.625	-		☺
ATLANTA	W4AQL	145.150	-	167.9	
ATLANTA	W4IBM	145.290	-		
ATLANTA	W4DOC	145.350	-	T146.2	☺
ATLANTA	K4LCI	145.430	-		
#ATLANTA	WB4QGR	146.640	-	UNCOR	☺
ATLANTA	W4DOC	146.820	-	T146.2	☺
ATLANTA	K4CLJ	146.970	-	T	
ATLANTA	WA4NNO	147.000	-		
ATLANTA	WB6RTH	147.105	+	107.2	☺
ATLANTA	K4JPD	147.195	+	T	
ATLANTA	KA5WZY	147.285	+		
ATLANTA/AIRPORT	W4REI	147.030	+		☺
ATLANTA/BELL	W4PME	145.410	-	100.0	☺
ATLANTA/MARIETTA	N4NFP	146.655	-	T118.8	☺
ATLANTA/MARIETTA	N4NEQ	147.345	+	118.8	☺
ATLANTA/SWEAT MT	KD4NC	146.730	-		
AUGUSTA	KK4HL	145.110	-		
AUGUSTA	W4DV	145.290	-	T100.0	
AUGUSTA	AA4UA	145.370	-		
AUGUSTA	K4KNS	145.410	-		☺
AUGUSTA	W4DV	145.490	-		
AUGUSTA	KT4N	146.940	-		
AUGUSTA	K4KNS	146.985	-	100.0	☺
AUGUSTA	N4BMA	147.180	+		
BAINBRIDGE	KE4RWR	147.090	+	PROP	
BALDWIN	WD4NHW	147.180	+		☺
#BLACK ROCK MT	KE4SNT	147.390	+	UNCOR	
BLAIRSVILLE	KE4RQT	146.955	-	T100.0	☺
BOGART	W4EEE	147.000	+	T	☺
BONAIRE	KD4HMH	145.470	-		
BONAIRE	K4EDN	147.015	+	T82.5	☺
BOSTON	W4UCJ	147.195	+		☺
BRUNSWICK	K4TVE	146.730	-		
CALHOUN	K4WOC	146.745	-	T100.0	☺
CARROLLTON	W4FWD	146.640	-	T131.8	☺
CARTERSVILLE	N4GIS	147.015	-	100.0	☺
CEDARTOWN	W4CMA	147.120	+		☺
CHATSWORTH	N4YYD	145.250	-	T71.9	
CLARKESVILLE	K4HCA	147.120	+		☺
CLAXTON	W4CLA	147.075	+		
CLEVELAND	WB4HIG	146.910	-		
COCHRAN	N4MXC	145.110	-	T107.2	
COCHRAN	W3LAP	147.330	+	T77.0	☺
COLBERT	N4ALE	147.300	+		☺
COLUMBUS	KA4CEK	145.310	-		
COLUMBUS	W4CVY	146.610	-		
COLUMBUS	W4CVY	146.880	-		
CONYERS	WB4JEH	145.230	-	T151.4	
CONYERS	WB4JEH	146.610	-	T151.4	
CONYERS	KF4GHF	147.210	+	T162.2	☺
CORDELE	WR4SG	145.230	-	PROP	☺
CORDELE	KA4WUJ	145.490	-	T103.5	☺
COVINGTON	WA4ASI	146.925	-		
COVINGTON	KF4GHF	147.270	+	T162.2	☺
CUMMING	WB4GQX	147.150	+		☺
DAHLONEGA	N4KHQ	146.835	+	T100.0	☺
DALLAS	W4RPO	146.850	-		
DALLAS	WD4LUQ	146.895	+	T77.0	☺
DALTON	W4DRC	145.230	-		☺
DALTON	N4BZJ	147.135	+	T118.8	☺
DECATUR	W4BOC	145.450	-		☺
DOERUN	KG4ABK	147.225	+	PROP	
DOUGLAS	KE4ZRT	147.045	+	141.3	☺
DOUGLAS	AD4EQ	147.315	+		☺
DOUGLASVILLE	KR4HV	145.110	-	T88.5	☺
DOUGLASVILLE	W4SCR	147.360	+	T88.5	☺
DUBLIN	WA4HZX	147.360	+		
EASTMAN	KC4RRO	145.210	-		
EASTMAN	KF4ODQ	145.330	-	T77.0	
EATONTON	KC4YHM	147.090	+	T179.9	☺
ELBERTON	N4UJT	146.625	-		
ELLIJAY/TALONA M.	KC4ZGN	146.985	-	T77.0	
EMERSON	AE4JO	147.240	+	T103.5	☺
FAYETTEVILLE	WA4EPK	145.210	-	131.8	☺
FAYETTEVILLE	K4KZY	146.685	-	PROP	☺
FOLKSTON	KD4GEY	146.790	-		
FORSYTH	W4STJ	147.315	+	88.5	☺
GAINESVILLE	W4ABP	146.670	-	T131.8	☺
GRIFFIN	K4HYB	145.390	-	T88.5	☺
GRIFFIN	K4HYB	146.910	-		☺
HARTWELL	N4VNI	146.895	-	T100.0	☺
HAWKINSVILLE	WR4MG	146.895	-	PROP	☺
HINESVILLE	KF4UM	147.015	+		☺
IRWINTON	WB4NFG	147.240	+	T77.0	
IVEY	K4YC	145.250	-	T	☺
IVEY/MACON	K4YC	145.150	-	77.0	☺
JASPER	KB4IZF	145.370	-	T100.0	☺
JASPER	K4UFO	146.700	-		☺
JASPER	KC4AQS	146.805	+	T100.0	
JESUP	WA4EQL	145.190	-		
JESUP	AA4EIM	145.430	-		☺
JESUP	N4ZON	146.865	-	T123.0	☺
JESUP	N4PJR	146.925	-		
JESUP/SCREVEN	N4PJR	147.345	+		
JONESBORO	WA4DIW	145.170	-		☺
JONESBORO	WA4OGE	145.330	-		
KIBBEE	K4HVK	146.820	-	T	☺
KINGSLAND	KC4WWU	147.285	+	T118.8	
LAFAYETTE	KB4VAK	147.375	+	T77.0	
LAGRANGE	KD4BWK	146.700	-	T141.3	
LAGRANGE	WB4BXO	147.330	+		

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

GEORGIA REPEATERS CONTINUE

LAKE PARK	WR4SG	147.135	+	T141.3	☺
LAVONIA	K4NVG	146.715	-	T100.0	☺
LAWRENCEVILLE	WB0QGH	145.190	-	T	
LAWRENCEVILLE	W4GR	147.075	+	82.5	☺
#LINCOLNTON	KT4N	147.120	+	UNCOR	
LOOKOUT MT.	KS4QA	146.760	-	T67.0	☺
LOOKOUT MTN	W4GTA	145.350	-	T100.0	☺
MACON	W4BKM	145.370	-		☺
MACON	AA4RI	145.430	-		☺
MACON	WR4DH	146.730	-	T100.0	☺
MACON	K4PDQ	146.805	-	T77.0	☺
MACON	N3SM	146.895	-	T123.0	
MACON	WA4DDI	147.060	+	T	☺
#MACON	KF4XH	147.165	+	UNCOR	
MADISON	WB4DKY	146.865	-	T179.9	
MARIETTA	W4LMA	145.490	-	88.5	☺
MARIETTA	N4NEQ	146.775	-	T118.8	☺
MARIETTA/ATLANTA	W4BTI	146.880	-	T100.0	☺
MILLEDGEVILLE	WB4DOJ	146.700	-	T67.0	☺
MILLEDGEVILLE	K4GK	147.135	+	T123.0	☺
MORGANTON	N4NEQ	147.165	+	T151.4	☺
MOULTRIE	WD4KOW	146.790	-		☺
NASHVILLE	KB4JF	145.310	-	T141.3	
NEWNAN	K4SEX	145.130	-		
#NEWNAN	K4SEX	146.790	-	UNCOR	
OCILLA	KD4MFS	145.350	-		☺
PEMBROKE	W4CJB	147.390	+		
PERRY	WR4MG	145.290	-	T107.2	☺
PERRY	WR4MG	146.955	-	107.2	☺
PINE MT/HAMILTON	WB4ULJ	145.190	-		
QUITMAN	WA4NKL	146.880	-		☺
RICEBORO	KF4UM	145.470	-		☺
RINGGOLD	W4ABZ	146.715	-	T67.0	
ROME	WB4YSV	147.300	+		
ROME/MT. ALTO	W4VO	146.940	-	88.5	☺
ROSWELL	N4CLA	147.060	+		☺
SANDERSVILLE	KT4X	145.270	-	T77.0	
SAVANNAH	K4NLX	146.700	-		
SAVANNAH	KE4WAQ	146.850	-		☺
SAVANNAH	W4HBB	146.880	-		☺
SAVANNAH	W4HBB	146.970	-		☺
SAVANNAH	WA4IDS	147.150	+	PROP	
SAVANNAH	K4NLX	147.210	+		
SAVANNAH	K4NLX	147.330	+		
SNELLVILLE	KR4NQ	147.255	+	T107.2	☺
ST SIMONS ISLAND	N4XGI	145.330	-	T131.8	☺
STATESBORO	NC4D	147.105	+		
STOCKBRIDGE	WA4JDR	145.310	-		
STONE MT	W4BOC	146.760	-	T107.2	☺
SUMMERVILLE	W4RLP	147.225	+	100.0	☺
SWAINSBORO	K4VYX	146.790	-		
SWEAT MT/MARIETT	N4CLA	145.470	-		☺
THOMASTON	W4OHH	147.390	+	131.8	
THOMASVILLE	W4UCJ	147.060	+		☺
THOMSON	KC4GSS	146.835	-		
TOCCOA	KA4DIP	147.330	+		☺
TYRONE	N4OME	147.165	+		☺
UNADILLA	WR4MG	146.760	-	T107.2	☺
VALDOSTA	WR4SG	145.130	-	T141.3	☺
VALDOSTA	KF4BJM	146.760	-	141.3	
VIDALIA	K4HAO	146.625	-		☺
WALESKA/PNLG MT	K4PLM	145.270	-	T103.5	☺
WARM SPRINGS	KN4FE	146.985	-		
WARNER ROBINS	WA4ORT	146.850	-		
WARNER ROBINS	WB4BDP	147.180	+		☺
WARNER ROBINS	WR4MG	147.300	+	107.2	☺
WATKINSVILLE	KD4AOZ	147.045	+	T123.0	
WAYCROSS	AE4PO	146.640	-	T141.3	☺
WAYCROSS	AE4PO	147.255	+	T141.3	☺
WAYNESBORO	K4BR	145.230	-		
WRENS	KB4NA	146.775	-		
WRIGHTSVILLE	WA4RVB	146.940	-		☺
YOUNG HARRIS	K2YRW	147.090	+		☺

220 MHZ

ACWORTH/ATL	N4MTA	224.320	-	T123.0	
ACWORTH/ATL	N4MTA	224.500	-	T123.0	
ALPHARETTA	NX9O	224.580	-	100.0	
ALPHARETTA	KC4JNN	224.860	-	T100.0	☺
ATL/MARIETTA	N4NEQ	224.440	-	T118.8	☺
ATLANTA	N4BLR	224.280	-		
ATLANTA	W4DOC	224.340	-		☺
ATLANTA	W4DOC	224.560	-	T146.2	☺
ATLANTA	KK4C_	224.820	-		
#ATLANTA-NE	KC4OVY	224.200	-	UNCOR	☺
ATLANTA/BELL	W4PME	224.620	-	100.0	☺
ATLANTA/MARIETTA	N4NFP	224.120	-	T118.8	☺
ATLANTA/MARIETTA	N4NEQ	224.220	-	T	☺
ATLANTA/MARIETTA	PT2RFL	224.960	-	T100.0	☺
AUGUSTA	WB4KXO	224.940	-		☺
BISKEY MTN	KC4JNN	224.160	-	T100.0	☺
CEDARTOWN	KC4KLW	224.780	-	T179.9	
CLAYTON	W4UWH	224.720	-	PROP	
#CONYERS	WB4JEH	224.020	-	UNCOR	
CUMMING	K4JSR	224.980	-		
DAHLONEGA	N4RBT	224.380	-	T100.0	☺
DALLAS	N4YDX	224.180	-		☺
DALLAS	N4YEA	224.540	-		☺
DALLAS	W4TIY	224.700	-		☺
DALTON	N4BZJ	224.360	-	T	☺
DALTON	N4BZJ	224.460	-	T118.8	☺
DALTON	N4BZJ	224.680	-		☺
DALTON	N4KVC	224.740	-	T	☺
FT MT/CHATSWTH	N4YYD	224.240	-	T71.9	
GAINESVILLE	WA4BP	224.460	-	PROP	☺
GAINSVILLE	W4TL	224.840	-	T131.8	☺
HAWKINSVILLE	WR4MG	224.820	-	PROP	
JASPER	KC4AQS	224.400	-	T100.0	
JASPER	W4UWH	224.600	-	100.0	☺
LOOKOUT MT	KS4QA	224.560	-	T	
LOOKOUT MT.	KS4QA	224.640	-		☺
MARIETTA	KE4QFG	224.260	-		
MARIETTA	W4LMA	224.900	-		☺
NORCROSS	KE4IPX	224.480	-		
PINE LOG MTN	KE4AIS	224.520	-		☺
SNELLVILLE	W4CSX	224.920	-	T100.0	☺
STONE MT	W4BOC	224.760	-		☺
TEMPLE	WA4KM	224.300	-	T100.0	
VALDOSTA	KB0Y	224.460	-	T141.3	☺
WALESKA	KD4ALC	224.140	-		
WALESKA	KB4GDS	224.940	-		☺
WARNER ROBINS	WR4MG	224.840	-		☺
WATKINSVILLE	KD4AOZ	224.420	-	T123.0	
YORKVILLE	WD4LUQ	224.880	-	T77.0	☺
YOUNG HARRIS	NP2Y	224.660	-	PROP	

440 MHZ

ACWORTH	KC4YNF	441.800	+	T77.0	☺
ALBANY	W4MM	444.500	+		☺
ALPHARETTA	WB6RTH	442.000	+	107.2	☺
ATHENS	AA4AI	442.950	+	T179.9	☺
ATHENS	WB4VNT	443.300	+	T	☺
#ATHENS/CRAWFORD	KC4GZX	444.300	+	UNCOR	☺
ATL/MARIETTA	N4NFP	442.800	+	T	☺
ATL/MARIETTA	N4NEQ	444.050	+	T118.8	☺
ATL/MARIETTA	N4NEQ	444.775	+	118.8	☺
ATLANTA	W4CML	442.025	+	T127.3	☺
#ATLANTA	WB6RTH	442.225	+	UNCOR	☺
ATLANTA	KE4PVE	442.675	+	T100.0	
ATLANTA	WA4YNZ	442.975	+	T	
ATLANTA	W4CML	443.025	+	T127.3	☺
ATLANTA	KA5WZY	443.600	+	PROP	
ATLANTA	KE4ZV	443.650	+	T100	
ATLANTA	KD4LXT	443.875	+		
ATLANTA	W4DOC	444.450	+	T146.2	☺
ATLANTA	WB5TUF	444.500	+		☺
ATLANTA	W4DOC	444.825	+	T146.2	☺
ATLANTA	WA4NNO	444.925	+		
ATLANTA	WA4YNZ	444.975	+	T	
ATLANTA/BELL	W4ZTL	421.250	+		☺
ATLANTA/BELL	W4PME	444.150	+	T100.0	☺
ATLANTA/MARIETTA	PT2RFL	442.875	+	T100.0	☺
ATLANTA/MARIETTA	N4NFP	443.800	+	T118.8	☺
AUGUSTA	KD4BOO	444.900	+		☺
BALDWIN	WD4NHW	442.350	+		☺
BARNESVILLE	N4GWO	443.675	+		
#BISKEY MTN	KC4JNN	443.250	+	UNCOR	☺
BLAIRSVILLE	KF4SKT	442.200	+		
BOGART	W4EEE	443.475	+	T	☺
BONAIRE	K4EDN	444.625	+	T82.5	☺
BRUNSWICK	KD4CPO	443.425	+		
BRUNSWICK	K4TVE	444.975	+		
BUFORD	K3TD	442.900	+	T103.5	
BYRON	KF4XH	443.150	+		
BYRON	WB4SBT	444.700	+	T103.5	☺
CARROLLTON	AE4GU	444.075	+	T107.2	
CARTERSVILLE	N4GIS	443.175	+		
CEDARTOWN	KD4NTF	443.575	+	T107.2	
CHATSWORTH	W4DRC	443.000	+		☺
CHESTER	KD4IEZ	444.525	+	T156.7	
CLARKESVILLE	K4HCA	442.425	+		☺
CLAYTON	W1CP	442.825	+	T162.2	☺
CLERMONT	W4TL	444.950	+	PROP	☺
COCHRAN	N4MXC	444.775	+	PROP	
COCHRAN	W3LAP	444.975	+	77.0	☺
CONCORD	WB4GWA	443.400	+	118.8	
CONYERS	WB4JEH	442.550	+	T151.4	
CONYERS	KB2DZA	443.725	+	T77.0	☺
CONYERS	WB4JEH	444.550	+	T151.4	
CONYERS	KC4ELV	444.750	+	T162.2	☺
CORNELIA	K4JLG	444.275	+	PROP	
COVINGTON	K4GO	443.750	+	T146.2	
COVINGTON	KE4PVE	444.175	+	T100.0	
COVINGTON	WA4ASI	444.800	+	T88.5	
CULLODEN	KE4BB	444.275	+	T123.0	☺
CUMMING	WB4GQX	441.900	+	T141.3	☺
CUMMING	WA4BPY	442.575	+	T79.9	☺
CUMMING	W4CBA	444.625	+	T123.0	☺
#CUMMING	WA4YNZ	444.975	+	UNCOR	
DACULA	KK4IN	443.550	+		
DAHLONEGA	N4KHQ	443.100	+	100	☺
DAHLONEGA	N4KHQ	444.900	+		☺
DALLAS	W4CSX	441.925	+	T162.2	☺
DALLAS	W4TIY	443.700	+		☺
DALLAS	WD4LUQ	444.700	+	T77.0	☺
DALTON	KD4GRU	442.125	+	PROP	
DALTON	N4BZJ	442.175	+	T118.8	☺
DALTON	N4BZJ	444.500	+	T118.8	☺
DALTON	N4BZJ	444.850	+		☺
DANIELSVILLE	KE4FHN	442.650	+	T	
DECATUR	N3APR	442.200	+		
DECATUR	KA4UFM	443.950	+	T110.9	☺
DECATUR	W4BOC	444.250	+		☺
DOUGLASVILLE	W4SCR	444.575	+	T88.5	☺
DUBLIN	KD4FOC	442.600	+	T77.0	
DUBLIN	KD4IEZ	443.025	+	T156.7	
DULUTH	W4IXN	443.775	+	T82.5	
EATONTON	KC4YHM	442.925	+		☺
ELLIJAY	KC4ZGN	442.700	+	T77.0	
FAYETTEVILLE	W4PSZ	444.600	+		
FLOWERY BRANCH	K4VJM	442.775	+	PROP	
FLOWERY BRANCH	K4RHJ	443.900	+	T100.0	☺
FOLKSTON	KD4GEY	444.475	+		
FT. MT/CHATSWTH	N4YYD	443.350	+	T71.9	
GAINESVILLE	W4ABP	442.625	+	T131.8	☺
#GAINSVILLE	WA4DB	444.200	+	UNCOR	
GRAY	K4MDS	443.625	+		☺
GREENSBORO	N4YXL	444.850	+	PROP	
GRIFFIN	KE4WLP	443.550	+		☺
HAMILTON	WB4ULJ	444.400	+		
HAPEVILLE	KC4ENL	442.825	+	T167.9	
HIAWASSEE	KC4CBQ	444.675	+	186.2	☺
HIGH PT/LOOKT MT	KB4VAK	443.450	+	T77.0	
HINESVILLE	KF4UM	444.850	+	PROP	☺
HOG MTN	WB0QGH	444.400	+	T82.5	
HOGANSVILLE	KC4YNY	444.300	+	PROP	
IRWINTON	WB4NFG	444.925	+	T77.0	
IVEY	K4YC	443.200	+	T88.5	☺
IVEY	K4YC	444.650	+	T	☺
JASPER	N3DAB	442.750	+	PROP	
JASPER	KC4AQS	443.375	+	T100.0	
JASPER	KB4MDE	443.425	+		
JASPER	KF4OYP	443.625	+	T100.0	
JASPER	KB4IZF	444.375	+	T103.5	☺
JESUP	N4PJR	444.925	+		
JONESBORO	N4QCP	443.225	+		
JULIETTE	WB4JWM	444.425	+	T156.7	
KINGSLAND	KC5BMJ	444.625	+	T118.8	
KNOXVILLE	N4PQR	443.525	+	PROP	
LAKEMONT	N4ZRF	444.750	+	T	
LAVONIA	K4NVG	442.475	+	T203.5	☺
LAWRENCEVILLE	WB0QGH	442.850	+	T82.5	
LAWRENCEVILLE	WB4QDX	444.000	+	T100.0	☺
LAWRENCEVILLE	W4CML	444.025	+	T127.3	☺
LOOKOUT MT.	KS4QA	442.475	+	T67.0	☺
LOOKOUT MTN	W4LOC	442.650	+	T100.0	☺
MABLETON	W4JLG	442.325	+	T	☺
MACON	K4DDH	442.275	+	T100.0	☺
MACON	K4EFW	442.875	+	T114.8	☺
#MACON	KC4ZIZ	443.075	+	UNCOR	
MACON	W4BKM	444.100	+		☺
MARIETTA	N1KDO	442.050	+	T107.2	☺
MARIETTA	KE4QFG	442.375	+	T	
MARIETTA	WA4OKJ	442.600	+	T100.0	
MARIETTA	N4MTA	443.500	+		
MARIETTA	KF4BMG	444.325	+	T79.7	
MARIETTA/ATL	KE4QFG	442.725	+	T	
MCDONOUGH	KE4UAS	444.875	+	T123.0	
MONROE	KQ4XL	443.925	+	T123.0	
MOULTRIE	W1BPP	444.625	+	T123.0	
NEWNAN	KE4PVE	444.350	+	PROP	
NORCROSS	K4HUM	442.100	+	T	
PEACHTREE CITY	AB4KN	442.500	+	T77.0	
PEACHTREE CITY	N4YTR	444.675	+	T77.0	
PENDERGRASS	KE4PVE	444.125	+	PROP	
PERRY	WR4MG	444.950	+		☺
PINE LOG MTN	KD4APP	443.200	+		☺
QUITMAN	WA4NKL	444.600	+	T127.3	☺
REX	KB4NPO	443.975	+	PROP	
RINGGOLD	KW4KW	442.300	+	PROP	
RINGGOLD	W4BAB	443.925	+		
ROCKMART	KC4KLW	443.275	+	T179.9	
ROME	KC4KLW	443.525	+	T179.9	
ROSWELL	W8BLA	442.075	+	T	
#ROSWELL	WA4YNZ	442.975	+	UNCOR	
ROSWELL/BELL	N4SE	442.150	+	T100.0	☺
ROSWELL/BELL	W4PME	443.150	+	100.0	☺
SANDY SPRINGS	KE4OKD	441.950	+	T103.5	☺
SAVANNAH	K4NLX	421.250	+		
SAVANNAH	WA4VHP	427.250	+	T	
SAVANNAH	K4NLX	442.700	+		
#SAVANNAH	WD4AFY	444.000	+	UNCOR	
SHELLMAN BLUFF	KC5BMJ	443.650	+	PROP	
SMYRNA	N4IBW	444.650	+		
SNELLVILLE	W4CML	442.450	+	T	
SNELLVILLE	NE1H	443.050	+	T	
SNELLVILLE	W4GR	444.525	+	82.5	☺
ST SIMONS ISLAND	N4XGI	442.950	+	T131.8	☺
STOCKBRIDGE	N4JMD	443.325	+	T	
SWEAT MT/MARIETT	N4CLA	444.475	+		☺
VALDOSTA	WR4SG	444.350	+	T141.3	☺
VALDOSTA	KF4BJM	444.700	+	T141.3	
VIDALIA	KE4PMP	442.500	+	T88.5	☺
#WALESKA	KD4DXR	441.350	+	UNCOR	
#WALESKA	K4PLM	443.850	+	UNCOR	☺
WARM SPRINGS	N4UER	442.400	+		
WARNER ROBINS	WR4MG	442.900	+		☺
WATKINSVILLE	KD4AOZ	444.725	+	T123.0	

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

GEORGIA REPEATERS CONTINUE

WAYCROSS	AE4PO	444.025	+	PROP	
WOODSTOCK	KE4SJO	444.225	+		

920 MHZ

#SAVANNAH	WA4VHP	923.000	-	UNCOR	

1270 MHZ

ATL/MARIETTA	N4NEQ	427.250	+		
ATLANTA/BELL	KB4KIN	1292.000	-		
DALTON ATV	N4BZJ	421.250	+		

KENTUCKY

10 METERS

LOUISVILLE	KK4CZ	29.640	-		

6 METERS

ASHLAND	KC4QK	53.010	-	T107.2	
DORTON	WR4AMS	53.350	-	PROP	
HAZARD	K4TDO	53.850	-		
HIGHLAND HEIGHTS	AD4CC	53.330	-	123.0	
HIGHLAND HEIGHTS	W4YWH	53.750	-	PROP	
LAGRANGE	WB4WSB	53.950	-	PROP	
LAWRENCEBURG	N4EQT	53.130	-	T107.2	
LEXINGTON	KE4LGL	53.570	-		
LONDON	KE4ZJT	53.910	-	T100.0	
LOUISVILLE	KF4UAQ	53.290	-		
LOUISVILLE	WA4DBY	53.430	-	T151.4	
LOUISVILLE	WB4LBR	52.025	+		
NANCY	KA4UHL	53.270	-	T100.0	
#STANTON	WD4KNE	53.810	-	UNCOR	
WAYNESBURG	KE4RKF	53.390	-	T100.0	
WILLIAMSBURG	KB4PTJ	53.070	-	T100.0	

2 METERS

ALLEN	K4ICN	147.300	+	T123.0	
#ARTEMUS	KE4INT	147.390	+	UNCOR	
ASHLAND	KG4DVE	146.940	-		
ASHLAND	KC4QK	147.240	+	T107.2	
ASHLAND	WA8KWH	147.330	+		
BARBOURVILLE	KF4CME	147.135	+	100.0	
BARDSTWN/NELSN	WB4GGH	145.470	-	151.4	
BEREA	KF4OFT	146.715	-	100.0	
BLACK MOUNTAIN	KB4DFK	147.210	+	T103.5	
BOWLING GREEN	WA4GOZ	146.625	-	PROP	
BOWLING GREEN	K4LOL	147.060	+	156.7	
BOWLING GREEN	W4WSM	147.165	+		
BOWLING GREEN	KA4CFW	147.330	+		
BOWLING GREEN-SO.	W4WSM	146.655	-		
BROOKS	KY4KY	146.700	-	T151.4	
BUCKHORN LAKE	KG4HRN	147.375	+	T103.5	
CANE VALLEY	WA4UXJ	146.640	-		
CENTER	KD4YGK	147.375	+	151.4	
#CENTRAL CITY	WF4N	145.390	-	UNCOR	
CORBIN	WD4KWV	146.610	-		
COVINGTON	WR8CRA	147.390	+		
CRESTWOOD	KF4TOL	147.390	+	T151.4	
DANVILLE	WD4DZC	146.655	-		
DAVID	KC4KZT	145.310	-	T	
DAWSON SPRINGS	KF4CWK	147.090	+	T103.5	
#DIXON	N4IOX	147.255	+	UNCOR	
DORTON	KC4KZT	146.895	+	T141.3	
DRAKESBORO	KF4DKJ	146.820	-	T	
ELIZABETHTOWN	W4BEJ	146.980	-		
ELKTON	KA4NNE	146.805	-	151.4	
FARMINGTON	W4GZ	147.240	+	T91.5	
FLEMINGSBURG	KF4BRO	146.955	-	T107.2	
FLORENCE	K4JBV	146.895	-	100.0	
FRANKFORT	N4EQT	147.105	+	T107.2	
FRANKFORT	KC4AI	147.240	+	T100.0	
FRANKLIN	KE4SZK	147.135	+	PROP	
GEORGETOWN	KF4NTQ	146.685	-	107.2	
GLASGOW	KY4X	146.940	-	114.8	
GRAYSON	KD4DZE	146.700	-	107.2	
GREENVILLE	WA4TTC	146.745	-		
GRETHEL	KJ4VF	147.045	+	T100.0	
HALLS GAP	W8PRH	145.170	-		
HARLAN	WA4ZAC	147.105	+		
#HAWESVILLE	K9ZK	147.105	+	UNCOR	
HAZARD	KF4SJO	146.670	-		
HAZARD	W8PRH	146.805	-		
HENDERSON	W4KVK	145.490	-		
#HENDERSON	K4DPP	146.970	-	UNCOR	
HIGHLAND HEIGHTS	W4YWH	146.790	-		
HIGHLAND HTS.	K4CO	147.255	+	T	
#HODGENVILLE	KC4TX	147.315	+	UNCOR	
HOPKINSVILLE	KF4FO	146.710	-		
HOPKINSVILLE	KD4ULE	147.030	+	T103.5	
HUEYSVILLE	KF4ZTB	145.470	-	T79.7	
HYDEN	KF4TLT	147.240	+	186.2	
IRVINE	W4CMR	146.820	-	192.8	
IRVINE	AD4RU	147.015	+		
IRVINGTON	WB4WVH	146.900	-		
JACKSON	WA4MXO	145.410	-		
#JONATHAN CREEK	N4SEI	146.985	-	UNCOR	
LAWRENCEBURG	N4EQT	145.390	-	T107.2	
LEBANON	WD4JZH	147.345	+	PROP	
LEESBURG	KC4UPE	145.110	-	T192.8	
LEXINGTN/GRGTWN	W8PRH	145.210	-		
LEXINGTON	AD4YJ	145.250	-	110.9	
LEXINGTON	WB4CWF	145.490	-		
LEXINGTON	AC4AO	146.730	-		
LEXINGTON	K4KJQ	146.760	-		
LEXINGTON	WA4HBM	147.165	+		
LEXINGTON	KJ4VF	147.195	+		
#LITCHFIELD	KB4NFK	147.225	+	UNCOR	
LONDON	KE4ZJT	147.180	+	151.4	
LONDON	KC4ZFH	147.285	+	T	
LOUISA	N8QCW	147.390	+	127.3	
LOUISVILLE	W8PRH	145.230	-		
LOUISVILLE	AC2DC	145.290	-	T151.4	
LOUISVILLE	KK4CZ	145.410	-	127.3	
LOUISVILLE	W4PF	146.880	-		
LOUISVILLE	W4PJZ	147.030	+	151.4	
LOUISVILLE	N4NMC	147.070	+	T151.4	
#LOUISVILLE	KA4KMT	147.120	+	UNCOR	
#LOUISVILLE	KA9KOP	147.150	+	UNCOR	
LOUISVILLE	W4CN	147.180	+	88.5	
LOUISVILLE	WB4EJK	147.270	+	151.4	
LOUISVILLE	KQ9Z	147.360	+		
LOUISVILLE AREA	N4UL	145.130	-	T151.4	
LYNN GROVE	KA4BLZ	146.895	-	T210.7	
MADISONVILLE	KC4FRA	146.610	-		
#MARION	KA4FGA	147.285	+	UNCOR	
MAYSVILLE	KF4BRO	145.470	-	T107.2	
MIDDLESBORO	W4PPM	146.775	-		
MILLARD	KD4RTR	146.745	-	T141.3	
MONTECELLO	WB9SHH	146.955	-	PROP	
MONTICELLO	KY4JW	145.150	-		
MOREHEAD	KJ4VF	145.130	-	T100.0	
MOREHEAD	K4GFY	146.910	-	T123.0	
#MT. STERLING	WD4KNE	147.330	+	UNCOR	
MURRAY	K4MSU	146.940	-		
NANCY	KA4UHL	146.790	-	T100.0	
#NEBO	AA4NI	146.730	-	UNCOR	
#NICHOLASVILLE	WB4LBI	146.990	-	UNCOR	
OWENSBORO	N4WJS	146.685	-	110.9	
OWENSBORO	KM4OF	146.865	-		
OWENSBORO	K4HY	147.210	+	110.9	
OWINGSVILLE	N4TLP	147.075	+		
PADUCAH	K4CUW	146.655	-	T	
PADUCAH	K4CUW	146.760	-		
#PADUCAH	W4NJA	147.060	+	UNCOR	
PAINTSVILLE	N4KJU	145.270	-	T	
PARIS	KE4OOS	147.045	+	PROP	
PHELPS	KJ4YK	147.090	+		
PIKEVILLE	AD4BI	145.150	-	107.2	
PIKEVILLE	KM4IV	146.850	-		
PRESTONSBURG	WB4UBY	147.165	+		
PRINCETON	W4KBL	146.670	-		
#PROVIDENCE	N4IUI	147.330	+	UNCOR	
RADCLIFF	AI4HB	145.350	-	173.8	
RADCLIFF	W4BEJ	146.925	-		
RICHMOND	KE4YVD	145.370	-	T192.8	
RICHMOND	KG4AEU	146.865	-	192.8	
ROCKFIELD	KG4FEJ	145.450	-	PROP	
ROCKPORT	KD4BOH	145.270	-	77.0	
SALEM	KC4VXR	147.315	+		
SALVISA	KC4ZOX	146.835	-	T192.8	
SALYERSVILLE	KB4SQI	145.190	-	T127.3	
SANDY HOOK	KF4WMM	147.135	+	T107.2	
SHELBYVILLE	KE4LR	147.000	+		
SO. PORTSMOUTH	KC8FKP	145.390	-	136.5	
SOMERSET	KA4UHL	146.880	-	77.0	
SPRINGFIELD	WA4SJH	147.300	+		
ST. CHARLES	KE4AIE	147.270	+		
STANTON	N4VOS	145.290	-		
STANTON	W8PRH	146.970	-		
STINETT	KF4TLT	147.345	+	PROP	
TOMPKINSVILLE	KJ4OG	146.775	-		
VANCEBURG	AE4SK	146.775	-		
VERSAILLES	KF4INN	145.330	-		
WADDY	KS4TO	146.910	-	T107.2	
WALTON	K4CO	147.375	+		
WEBSTER	K4ULW	146.625	-	T151.4	
WEST LIBERTY	KG4GQC	145.230	-	PROP	
WILLIAMSBURG	KD4DAX	145.350	-		
WILLIAMSBURG	KG4M	147.000	+		
WINCHESTER	WB4ASZ	147.120	+		

220 MHZ

ASHLAND	KC4QK	223.940	-		
DORTON	WR4AMS	224.520	-		
HAZARD	WR4AMS	224.820	-		
IRVINE	AD4RU	224.940	-		
LANCASTER	KD4RXF	224.560	-		
LANGLEY	WR4AMS	224.720	-		
LAWRENCEBURG	N4EQT	224.900	-	PROP	
LEXINGTON	AC4AO	224.420	-		
LEXINGTON	KR4BD	224.800	-		
LONDON	WR4AMS	224.980	-	PROP	
LOUISVILLE	KA4MKT	224.300	-		
META	WR4AMS	224.380	-	PROP	
MIDDLESBORO	WM4MD	224.120	-	T82.5	
NANCY	KA4UHL	224.100	-	T100.0	
PIKEVILLE	WB4F	224.580	-		
PIKEVILLE	KD4DAR	224.620	-		
SHEPHERDSVILLE	N4FND	224.500	-	PROP	
SOMERSET	N4AI	224.300	-		
SOMERSET	N4AI	224.880	-		
VERSAILLES	AD4CR	224.220	-		

440 MHZ

ALLEN	N4IWZ	444.775	+	T123.0	
ASHLAND	KA4MKG	444.750	+	88.5	
ASHLAND	KC4QK	444.975	+	T107.2	
BARDSTOWN	KT4GB	443.000	+	PROP	
BEATTYVILLE	KC4UPE	444.825	+	T192.8	
BOWLING GREEN	W4HTB	426.250	+		
BOWLING GREEN	W4WSM	444.100	+		
BOWLING GREEN	N5KOL	444.700	+	T136.5	
BROOKS	KY4KY	443.700	+	151.4	
BRUSHY FORK	KF4WMM	444.600	+	88.5	
CANE VALLEY	KC4TX	443.950	+	T	
CORBIN	KF4IFC	444.275	+	79.7	
CORBIN	WB4IVB	444.900	+	T100.0	
COX'S CREEK	AE4NU	443.450	+	T151.4	
DAVID	KC4KZT	443.900	+	T167.9	
DAWSON SPRINGS	KU4MJ	444.275	+		
DORTON	KD4RTR	442.150	+	167.9	
DORTON	KJ4VF	443.250	+		
DRY RIDGE	KD4EVB	443.425	+	100.0	
ELIZABETHTOWN	W4BEJ	421.250	+		
ELIZABETHTOWN	W4BEJ	444.800	+	156.7	
FALMOUTH	KD4EVB	443.825	+	PROP	
FLORENCE	KC4COV	443.175	+		
FLORENCE	KC4COV	443.475	+	T192.8	
FLORENCE	KC4COV	444.175	+	T192.8	
FORT WRIGHT	KY4JD	442.525	+	T123.0	
FOSTER	KU4ML	443.125	+		
FRANKFORT	K4NGQ	442.175	+	T67.0	
FRANKFORT	WA4CMO	443.325	+		
FRANKLIN	KD4TAH	443.225	+		
GARRETT	KF4JJD	442.400	+	79.7	
GEORGETOWN	KF4NTQ	443.625	+		
GILBERTSVILLE	W2HR	442.850	+	T103.5	
GLASGOW	KY4X	444.925	+		
GLASGOW/CVCTY	KF4DC	444.250	+		
GRAEFENBURG	N4HZX	443.550	+		
GRETHEL	KJ4VF	444.525	+		
HAWESVILLE	KB4QFL	444.625	+		
HAZARD	K4TDO	443.975	+	PROP	
HENDERSON	KY4K	444.725	+	T203.5	
HIGHLAND HEIGHTS	W4YWH	444.900	+	123.0	
HOPKINSVILLE	KE4AIF	444.750	+	T103.5	
HUDSON	KC4JTV	444.900	+	PROP	
INDEPENDENCE	K4JBV	442.325	+	100	
INDEPENDENCE	KB8SBN	444.075	+	T110.9	
IRVINE	W4CMR	442.900	+		
IRVINE	AD4RU	444.000	+		
JONESVILLE	KC4COV	444.425	+	118.8	
LATONIA	AA4XV	442.400	+	T	
LAWRENCEBURG	N4EQT	443.925	+	PROP	
LEBANON JCT	KD4YGK	441.775	+	PROP	
LEBANON JCT	KD4YGK	444.150	+	PROP	
LEWISPORT	K4DC	444.550	+		
#LEXINGTON	KY4ATV	923.250	-	UNCOR	
LEXINGTON	KD4ADJ	442.050	+		
LEXINGTON	KE4OOL	443.025	+	T123.0	
LEXINGTON	KC4ZY	444.125	+		
LEXINGTON	KC4DUU	444.550	+		
LEXINGTON	KE4ISR	444.725	+	T	
LEXINGTON	N4DUE	444.950	+		
LOUISVILLE	N4ORL	442.000	+		
LOUISVILLE	KB4RYM	442.500	+		
LOUISVILLE	WD4ELX	442.550	+		
LOUISVILLE	KB4YJ	442.725	+	151.4	
LOUISVILLE	WD9EQC	443.500	+		
LOUISVILLE	N4UL	444.100	+	173.8	
#LOUISVILLE	WB4ZZD	444.300	+	UNCOR	
LOUISVILLE	N4NMC	444.600	+	T151.4	
LOUISVILLE AREA	N4RBL	442.100	+	T	
LOUISVILLE AREA	KD4CLR	442.450	+	T151.4	
LOUISVILLE SW	K4ULW	443.350	+		
MADISONVILLE	KC4FIE	442.425	+		
MADISONVILLE	AE4LW	442.575	+	T100.0	
MADISONVILLE	KC4FIE	442.775	+		
MADISONVILLE	KC4FIE	444.600	+		
MAMMOTH CAVE	KF4QZN	444.475	+	T179.9	
MARION	KR4PF	444.200	+	T100.0	
MAYSVILLE	KF4BRO	443.500	+	T123.0	
META	WB4UBY	443.500	+		
MIDDLESBORO	WM4MD	442.325	+	T67.0	
MIDDLESBORO	WB4IVB	444.150	+	T100.0	
MILLARD	KD4RTR	443.425	+		
MONTICELLO	WB9SHH	444.750	+		
MOREHEAD	K4GFY	442.500	+		
MORGANTOWN	KF4QZN	444.425	+	PROP	
MT STERLING	KD4ADJ	442.600	+		
MURRAY	K4MSU	443.800	+	T114.8	
NANCY	KA4UHL	443.600	+	T100.0	
NEBO	AA4NI	444.850	+		
NICHOLASVILLE	KC4UPE	444.775	+	T167.9	
NICHOLASVILLE	WB4CWF	444.975	+		
OLIVE HILL	KO4LI	444.925	+		
OWENSBORO	N4WJS	443.100	+		
OWENSBORO	N4WJS	443.650	+	203.5	
PAINTSVILLE	N4KJU	441.525	+	127.3	
PHELPS	N4MVY	444.575	+		
PIKEVILLE	KD4RTR	444.200	+		
PIKEVILLE	KD4DAR	444.375	+		

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

KENTUCKY REPEATERS CONTINUE

PIKEVILLE	AD4BI	444.475	+		☺
RICHMOND	KE4ISW	444.625	+	PROP	
ROBINSON CREEK	KC4VYX	444.675	+		☺
ROCKPORT	KD4BOH	442.675	+	77.0	
ROCKPORT	KD4BOH	444.075	+	T77.0	
RUSSELLVILLE	KD4TAH	442.350	+	PROP	
SALEM	KC4VXR	444.825	+	T100.0	☺
SALVISA	KF4AWA	444.675	+	T203.5	☺
SALVISA	KC4UPE	444.875	+	T167.9	
SALYERSVILLE	KE4NLL	444.050	+	T127.3	
SHELBYVILLE	KE4YRE	442.375	+		
SHEPHERDSVILLE	KD4YGK	444.400	+	T203.5	☺
SIMPSONVILLE	KO4OT	444.450	+	T100.0	☺
SPRINGFIELD	WA4SJH	444.600	+		☺
STANTON	N4VOS	442.075	+		
VERSAILLES	KF4INN	443.775	+		
WADDY	KS4TO	443.225	+		
WALTON	K4CO	444.350	+		
WILDER	KC4COV	444.400	+	PROP	
WILLIAMSBURG	KB4PTJ	444.050	+	100.0	☺

MISSISSIPPI

6 METERS

BYHALIA	N4DRL	53.270	-	T	☺
ELLISVILLE	N5EKR	53.010	-	T	
LAUREL	KC5PIA	53.450	-		☺
NETTLETON	AB5MU	53.050	-	192.8	☺

2 METERS

ABERDEEN	WB5USN	147.270	+		
ACKERMAN	NO5N	147.120	+		
AMORY	KB5DWX	146.940	-	T192.8	
AMORY	KB5DSN	147.090	+		
BAY ST. LOUIS	WB4FUR	146.700	-		
BILOXI	KC5IF	146.730	-		
BILOXI	K5TYP	146.790	-		
BOONEVILLE	K5YD	145.190	-	110.9	☺
BOONEVILLE	KI5WI	147.150	+		
BUDE	K5JMD	146.850	-	T103.5	
BYHALIA	N4DRL	145.350	-		☺
BYHALIA	N4DRL	147.225	+		☺
CHATAWA	WB5GOJ	145.310	-		
COLLINS	N5LRQ	146.985	-	T136.5	
COLUMBIA	N5LJC	147.285	+	PROP	
COLUMBUS	KC5ULN	146.625	-		☺
COLUMBUS	KC5ULN	147.000	+		☺
CORINTH	WB5VOJ	146.925	-	T107.2	
CORINTH	K5UFH	147.000	-		
CORINTH	KB5TGA	147.285	+		☺
D'IBERVILLE	KC5IF	145.410	-		
ELLISVILLE	N5EKR	146.955	-	T	
ELLISVILLE	N5DWU	146.865	+	T136.5	☺
ELLISVILLE	N5DWU	146.895	+	T136.5	☺
FOREST	KC5QHP	147.390	+	T100.0	☺
#FRENCH CAMP	W5BJT	147.225	+	UNCOR	
FULTON	WX5P	145.450	-		
GLOSTER	KX5E	145.430	-	T136.5	
GREENVILLE	KG5SF	147.345	+		☺
GREENWOOD	KA5TQY	146.715	-		
GRENADA	W5LV	146.700	-		☺
GULFPORT	KA5VFU	147.375	+		
HATTIESBURG	W5CJR	145.190	-	T136.5	☺
HATTIESBURG	K5IJX	145.370	-	136.5	
HATTIESBURG	W5CJR	146.775	-	T136.5	☺
HATTIESBURG	W5CJR	147.360	+		☺
HERNANDO	K5VV	146.910	-		
ISOLA	KC5OB	146.955	-		
IUKA	WB5MFK	146.850	-		
JACKSON	KB5KGE	145.390	-		
JACKSON	W5AXQ	146.760	-		☺
JACKSON	K5QNE	146.880	-	T100.0	☺
JACKSON	KA5SBK	146.940	-	100.0	☺
JACKSON	W5IQ	147.000	+	T	☺
JACKSON	NC5Y	147.075	+	T	
KILN	K5DMC	145.330	-		
KOSCIUSKO	W5LWC	146.850	-		
LAUREL	KC5QZW	146.610	-		☺
LAUREL	WV5D	147.030	-	T	
LAUREL	KC5RC	147.255	+		
LOUISVILLE	KC5QGC	147.360	+		
LUCEDALE	WA5JZL	146.910	-		
MADISON	K5XU	146.640	-		☺
MAGEE	K5HYE	146.820	-	100.0	☺
MAGEE	KA5LNY	147.300	+		☺
MCCOMB	K5JMD	146.940	-	T	
MCLAIN	KC5QYG	145.230	-	PROP	
MENDENHALL	K5HYE	145.110	-	T100.0	☺
MENDENHALL	KB5IKR	145.210	-	T100.0	
MERIDIAN	KC5ZZH	146.655	-		☺
MERIDIAN	W5FQ	146.700	-		
MERIDIAN	KI5FW	146.970	-	100.0	☺
MONTICELLO	N5JHK	147.015	+		
MOOREVILLE	WB5NAY	146.640	-		
NATCHEZ	W5KHB	146.685	-		
NATCHEZ	K5OCM	146.910	-	91.5	
NATCHEZ	K5SVC	147.360	+	100.0	
#NEW ALBANY	KC5VZI	145.230	-	UNCOR	
NEW ALBANY	W5UBG	146.670	-		☺
#NEW ALBANY	KC5VZI	146.745	-	UNCOR	
NEW HEBRON	N5MRS	147.090	+	T	☺
OCEAN SPRINGS	W5LDD	147.030	+		☺
OXFORD	KF4SCT	145.470	-	T107.2	☺
PASCAGOULA	W5WA	145.110	-	T123.0	☺
PASCAGOULA	KE5SJ	146.880	-		
PASCAGOULA	N5PH	146.970	-	T	
PEARL/RANKIN CO	KF5IZ	147.150	+	T88.5	
PETAL	N5DWU	145.170	-	T136.5	☺
PHILADELPHIA	N5EPP	147.330	+		
#PICAYUNE	K5LFP	145.150	-	UNCOR	
POLKVILLE	KB5LCL	147.045	+	T141.3	
PONTOTOC	WB5NAY	147.380	+		
PORT GIBSON	KE5WO	146.625	-		
PURVIS	KB5ZCX	146.670	-		
RAYMOND	KG5YV	147.240	+	PROP	
RICHTON	N5OCF	147.060	+	T	
SENATOBIA	KB5DMT	146.985	-	T107.2	
SHARON	N5ZQC	145.450	-	T100.0	☺
SOUTHAVEN	N5PYQ	145.370	-	T107.2	
STARKVILLE	KD5GVU	146.730	-	210.7	☺
STARKVILLE	KF5C	146.805	-	192.8	
#SUMNER	WB5FXH	147.090	+	UNCOR	
TUPELO	N5VGK	145.490	-		☺
TUPELO	N5ELS	147.240	+		
UNION	N5SPJ	147.210	+	T100.0	
UTICA	N5ZMZ	145.350	-		☺
UTICA	N5ZMZ	147.345	+		☺
#VANCLEAVE	KE5TL	147.000	-	UNCOR	
VICKSBURG	WJ5L	145.290	-		
#VICKSBURG	K5IMT	146.805	-	UNCOR	
VICKSBURG	K5ZRO	147.270	+	T100.0	☺
VOSSBURG	KB5UIX	147.135	+	136.5	
WALLS	N5NBG	145.270	-	T162.2	
WATER VALLEY	N5DXM	147.000	-		
WAYNESBORO	W5SAR	147.105	+		☺
WAYNESBORO	N5DWU	147.315	+		☺
WEST POINT	KC5LIO	147.180	+		☺
WIGGINS	KB5DZJ	145.270	-	T136.5	☺
WINONA	N5EYM	146.970	-	110.9	

220 MHZ

BYHALIA	N4DRL	224.500	-		☺
VICKSBURG	WB5OWY	224.780	-		
WARSAW	N4DRL	224.880	-		☺
WAYNESBORO	W5SAR	224.140	-		☺

440 MHZ

ABERDEEN	KD5AHI	444.450	+		
AMORY	KB5DSN	444.825	+		
BYHALIA	N4DRL	444.300	+		☺
CLERMONT HARBR	WD5BJT	444.150	+		
CLINTON	KG5YV	444.000	+	T100.0	☺
ELLISVILLE	N5DWU	442.200	+	T167.9	☺
ELLISVILLE	N5DWU	442.250	+	T167.9	☺
GAUTIER	KA5NOJ	911.250	-		☺
GAUTIER	KA5NOJ	426.250	+		☺
GAUTIER	KC5LCW	443.450	+	123.0	☺
GLOSTER	N5ZNS	443.825	+		
GREENVILLE	N5PS	444.675	+		
HATTIESBURG	W5CJR	443.700	+	T136.5	☺
HAZLEHURST	N5ZDF	443.950	+	T100.0	
HEIDELBERG	KC5RC	444.300	+	T100.0	
HICKORY FLAT	W4ZCD	444.725	+	T179.9	
INDIANOLA	AB5DU	444.850	+	136.5	
JACKSON	KB5LCL	444.450	+	T141.3	
JACKSON	KB5CO	444.600	+	T100.0	☺
JACKSON	NC5Y	444.700	+		
JACKSON	KB5CO	444.800	+		
JACKSON, EAST	AA5RZ	443.625	+		
MCCOMB	N5HTQ	444.875	+	T100.0	
MENDENHALL	K5HYE	443.600	+		☺
MERIDIAN	KB5BRZ	444.100	+	131.8	
MERIDIAN	W5LRG	444.500	+	107.2	☺
NATCHEZ	N5IAT	443.800	+		
NETTLETON	AB5MU	444.625	+	192.8	☺
NEW ALBANY	WB5YCR	444.150	+		☺
NEW HEBRON	N5NNI	444.525	+	T	☺
PEARL	KB5HAV	444.375	+	T88.5	
PETAL	W5CJR	443.350	+	T	☺
PHILADELPHIA	WB5YGI	444.950	+		
PICAYUNE	KE5LT	443.725	+	T179.9	☺
PINOLA	KC5LXF	444.850	+		
PORT GIBSON	KC5CLM	444.575	+	T141.3	☺
RICHTON	N5OCF	444.625	+		
SOUTHAVEN	N5PYQ	444.925	+	T107.2	
STARKVILLE	W5VZF	444.750	+		
STENNIS SPC CEN	WB4FUR	444.650	+		
TUPELO	N5VGK	444.950	+	T192.8	☺
VICKSBURG	WB5TTE	444.925	+		
VOSSBURG	N5LRQ	442.725	+	T167.9	
WALLS	N5NBG	444.650	+		
WAYNESBORO	W5SAR	443.500	+		☺
WAYNESBORO	W5SAR	443.550	+		☺
WEST POINT	N5WXD	443.450	+		☺
WIGGINS	KB5DZJ	443.300	+	167.9	☺

FOR CHANGES CONTACT YOUR DIRECTOR!

NORTH CAROLINA

10 METERS

BALD CREEK	N1BEC	29.660	-		
HIGH POINT	KE4QOX	29.640	-	T103.5	☺
NEWPORT	K4GRW	29.660	-	PROP	
ROCKY MOUNT	N4JEH	29.660	-		☺
THOMASVILLE	WW4DC	29.680	-	88.5	☺
WILKESBORO	KC4XE	29.620	-		☺
ZEBULON	WB4IUY	29.620	-		

6 METERS

AIR BELLOWS GAP	WA4PXV	53.050	-		
ASHEVILLE	WD4BQW	53.270	-		☺
ASHEVILLE	N4OOC	53.470	-	PROP	
BALD CREEK	N1BEC	53.030	-		
BARIUM SPRINGS	WA4WRS	53.670	-	PROP	☺
BOONE	WA4NC	53.790	-	PROP	☺
CHAPEL HILL	W4UNC	53.450	-	T107.2	☺
CLINTON	W4TLP	53.330	-		☺
DURHAM	W4BAD	53.750	-		☺
EFLAND	WA1YYN	53.410	-	T107.2	☺
#FAYETTEVILLE	W4EBM	53.810	-	UNCOR	
GASTONIA/CRDR MT	N4XTF	53.110	-		☺
HENDERSONVILLE	W4FOT	53.130	-	T100.0	☺
KVILLE/HIPOINT	KF4QDS	53.590	-	T103.5	
LUMBERTON	KD4BGD	53.110	-		☺
MT MITCHELL	AB4JJ	53.630	-	T100.0	☺
MT. AIRY	KD4FWS	53.970	-	PROP	
MT.AIRY/FANCY GP	KD4FWS	53.070	-	T100.0	
NEWPORT	K4GRW	53.010	-	PROP	
PITTSBORO	KD4JFN	53.230	-	T107.2	☺
RALEIGH	K4ITL	53.030	-		☺
RALEIGH	W4BAD	53.190	-	PROP	☺
#RANLO	KC4YOZ	53.390	-	UNCOR	☺
REELSBORO	KF4IXW	53.090	-	T162.2	☺
ROCKY MOUNT	N4JEH	53.050	-		☺
ROCKY MOUNT	KC4SBJ	53.650	-	PROP	
SAURATOWN MT	N4QLX	53.210	-		
SOPHIA/RANDLEMAN	WR4BEG	53.350	-		
THOMASVILLE	KE4QOX	53.010	-	T88.5	☺
THOMASVILLE	WW4DC	53.170	-	88.5	☺
THOMASVILLE	WW4DC	52.525	+	T88.5	☺
W. JEFFERSON	AB4JJ	53.330	+	T100.0	☺
WILLIAMSTON	K4SER	53.310	-		☺
WILMINGTON	AD4DN	53.430	-	T88.5	☺
YOUNGSVILLE	KD4MYE	53.370	-	T	☺
ZEBULON	WB4IUY	53.070	-	88.5	

2 METERS

AHOSKIE	WB4YNF	145.130	-		
AHOSKIE	WA4ZGQ	146.910	-	T131.8	☺
ALBEMARLE	K4OGB	146.985	-		☺
ANDRWS/ROBNSVL	K4AIH	147.045	-	T151.4	☺
ANDSN MT/DENVER	K4CCR	145.170	-	88.5	☺
AQUADALE	WA4CHZ	147.390	+		
ASHEBORO	KJ4AV	147.255	+		
#ASHEVILLE	WB4PLA	146.835	-	UNCOR	
ASHVL/MT PISGAH	WA4BVW	146.760	-		☺
ASHVL/SPIVEY MT	W4MOE	146.910	-	91.5	☺
BAKERSVILLE	KC4WPM	145.310	-		
BALD CREEK	N1BEC	147.045	+		
BANER ELK/SUGAR	N4WET	146.625	-		☺
BENSON	KD4BJD	146.970	-	PROP	☺
BEULAVILLE	N4VBH	145.230	-		
BOONE/RICH MTN	WA4J	147.360	+	T103.5	☺
BREVARD	K4HXZ	147.135	+		☺
BROADWAY	K4ITL	147.105	+		☺
BURGAW	W4DLH	146.940	-		☺
BURLINGTON	K4FHB	146.670	-		☺
BURNSVILLE	KD4WAR	146.955	-		
BURNSVILLE	KD4WAR	147.375	+		
BUTNER	N4NCK	146.370	-		☺
BUTNER	WA4IZG	146.940	-	T156.7	☺
BUXTON	K4USB	146.625	-	131.8	☺
CANTON	W4DJB	146.805	+		☺
CARTHAGE	W2SE	147.240	+		☺
CHAPEL HILL	W4UNC	145.230	-	T107.2	☺
CHAPEL HILL	K4ITL	147.135	+	T82.5	☺
CHARLOTTE	W4BFB	145.230	-		☺
CHARLOTTE	W4BFB	145.290	-		☺
CHARLOTTE	WA4AOS	145.350	-		☺
CHARLOTTE	W4BFB	146.940	-		☺
CHARLOTTE	W4CQ	147.060	-		☺
CHARLOTTE	W4CQ	147.270	+		☺
CHINA GROVE	N4XO	145.410	-	136.5	☺
CLAREMONT	WB4SRV	147.225	+	T162.2	☺
CLAYTON	WB4IUY	147.390	+	T88.5	
CLINTON	W4TLP	146.790	-		☺
COINJOCK	WN3X	145.290	-	131.8	
COLUMBIA	KB4TOH	146.835	-	T131.8	☺
#CONCORD/KANNAP	K4CEB	146.655	-	UNCOR	☺
CRDR MT/GASTONIA	WD4PLY	145.450	-		
CROSSNORE	KD4GLB	146.700	-	167.9	
#DOBSON	AD4T	146.925	-	UNCOR	
DUNN	N4CID	146.700	-		

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

N. CAROLINA REPEATERS CONTINUE

DURHAM	WR4AGC	145.450	-			
DURHAM	WD4LDB	147.360	+			
EDEN/STONEVILLE	WA4QBG	147.390	+			
EFLAND	WA1YYN	147.180	+	T156.7		
ELIZABETH CITY	WA4VTX	146.655	-	131.8		
ELM CITY	K2IMO	145.150	-	T88.5		
FARMVILLE	K4ROK	145.270	-	T131.8		
FAYETTEVILLE	N4EWG	146.805	-			
FAYVLLE/CFARS	WB4YZF	146.910	-	100		
FAYVLLE/FT BRAGG	W4LPL	147.330	+			
FOREST CITY	WA4BKU	146.670	-			
FOREST CITY	W4SIJ	147.240	+	T123.0		
FRANKLIN	NT4K	145.490	-			
FRANKLIN	W4GHZ	147.240	+	T151.4		
GASTONIA/CRWDR	K4GNC	146.805	-			
GASTONIA/SPCR MT	N4GAS	147.120	+			
GIBSONVILLE	WB4IKY	145.490	-	T107.2		
GOLDSBORO	KI4RK	145.330	-	100.0		
GOLDSBORO	K4CYP	146.850	-	T		
GRAHAM	K4GWH	147.375	+	T114.8		
GREENSBORO	W4GSO	145.150	-			
GREENSBORO	W4GG	145.250	-	T88.5		
GREENSBORO	K4GWH	146.760	-	T88.5		
GREENSBORO	KG4BTN	147.030	+	T131.8		
GREENSBORO	W4BUZ	147.210	+			
GREENVILLE	WD4JPQ	145.350	-	T131.8		
#GREENVILLE	KC4UMO	147.375	+	UNCOR		
GREENVL/ESTN NC	W4GDF	147.090	+			
GRIFTON	W4NBR	146.685	-	88.5		
HATTERAS ISLAND	K4OBX	145.150	-	T131.8		
HAW RIVER	KD4JFN	146.715	-	T107.2		
HENDERSONVILLE	WB4YAO	146.640	-	T100.0		
HENDERSONVILLE	WA4KNI	147.105	+			
HENDSVL/BERWLW	WA4KNI	145.270	-			
HENDSVL/PENIC	WA4KNI	147.255	+			
HICKORY/BRT. MT	WA4DSZ	146.850	-			
HIGH PEAK MTN	K4OLC	145.210	-	94.8		
HIGH POINT	NC4AR	145.290	-	T88.5		
HIGH POINT	KB4BPV	146.835	+			
HIGH POINT	W4UA	147.165	+			
HILLSBOROUGH	WR4AGC	147.225	+			
JACKSONVILLE	KA4SQN	145.190	-			
JACKSONVILLE	WB4FVO	147.000	-			
JEFFERSON	W4YSB	147.300	+	T103.5		
KANNAPOLIS	N4JEX	147.300	+	T136.5		
KILL DEVIL HILLS	W4PCN	145.110	-	131.8		
KINSTON	W4OIX	145.470	-			
LAURINBURG	KI4RR	146.625	-			
LELAND	N4CTJ	145.170	-			
#LENOIR	N4NIN	147.195	+	UNCOR		
LENOIR/HIBRITN	KN4K	147.330	+	T141.3		
LEXINGTON	N4LEX	145.310	-	T88.5		
LEXINGTON	K4IZM	146.910	-	T107.2		
LINCOLNTON	NC4LC	147.015	+	141.3		
#LUMBERTON	W4NHV	145.150	-	UNCOR		
LUMBERTON	W4NHV	147.045	+			
LUMBERTON	KD4PBK	147.165	+	T88.5		
LUMBERTON	W4PET	147.360	+			
MACO	WA4LED	147.060	+	T88.5		
MADISON	WA4IXW	147.345	+	T103.5		
MANTEO/WANCHES	W4ACY	146.940	-			
MARION	WD4PVE	146.985	-	118.8		
MIDWAY	KM4AR	145.270	-	T77.0		
MILLERS CREEK	N4GGN	146.715	-			
MONROE/UCARS	N4ZVN	145.390	-	T94.8		
MORGANTON	KC4QPR	146.745	-	94.8		
MORGANTON	K4VLY	147.150	+			
MOUNT AIRY	N4VRD	145.330	-	T100.0		
MOUNT AIRY	N4XRY	146.970	-			
MT MITCHELL	WA4BVW	145.190	-			
MURPHY/STALCUP	KB4YSX	146.865	+	T151.4		
N. WILKESBORO	W4HF	145.370	-			
NEW BERN	W4EWN	146.610	-	T100.0		
NEWPORT	K4GRW	145.450	-			
NEWTON	K4CCR	147.075	+	T88.5		
ORIENTAL	W4SLH	147.210	+			
OXFORD	N4NCK	145.170	-			
PITTSBORO	KD4JFN	147.075	+	T146.2		
RAEFORD	KU4W	145.430	-	100.0		
RALEIGH	W4RNC	145.130	-	T88.5		
RALEIGH	K4GWH	145.190	-	T156.7		
RALEIGH	WB4TQD	145.390	-	T82.5		
RALEIGH	W4BWC	145.490	-	T88.5		
RALEIGH	WB4TOP	146.610	-	T131.8		
RALEIGH	W4DW	146.640	-	T88.5		
RALEIGH	W4BWC	146.730	-	T88.5		
RALEIGH	NC4SU	146.775	-	T88.5		
RALEIGH	WB4TQD	146.880	-			
RALEIGH	KD4MYE	147.015	+			
RALEIGH	KO4CW	147.195	+	T88.5		
RALEIGH/BENSON	AK4H	147.270	+			
RED SPRINGS	W4MZP	147.300	+			
REIDSVILLE	N4IV	146.850	-	T103.5		
#ROANOKE RAPIDS	WA4WFU	145.310	-	UNCOR		
ROANOKE RAPIDS	KB4DJT	147.030	+			
ROANOKE RAPIDS	K4ITL	147.150	+	PROP		
ROARING GAP	WB4PZA	146.820	-			
ROBBINSVILLE	W4FMF	145.110	-	T151.4		
ROCKINGHAM	K4RNC	146.955	-			
ROCKY MOUNT	KF4NOV	145.290	-	PROP		
ROCKY MOUNT	W4DCG	146.805	-	T118.8		
ROCKY MOUNT	WN4Z	147.120	+	131.8		
ROLLESVILLE	KF4HFQ	147.315	+	T88.5		
ROSEBORO	K4ITL	145.310	-			
SALISBURY	W4EXU	146.730	-	T94.8		
SAURATOWN MT	W4NC	145.470	-	T100		
SAURATOWN MT	KG4ASL	146.790	-	T107.2		
SAURATOWN MT	K4MPJ	147.315	+	T100.0		
SHALLOTTE	K4PPD	145.370	-			
SHALLOTTE	K4PPD	147.315	+			
SHALLOTTE	K4PPD	147.390	+			
SHELBY	W4NYR	146.880	-			
SHELBY	W4NYR	147.345	+			
SOUTHPORT	W4ZU	146.775	-	100.0		
SPARTA/GREEN MT	K4QFQ	145.430	-			
STAR/BISCOE	KI4DH	147.090	+			
STATESVILLE	KE4WSX	146.685	-			
#STATESVILLE	KC4MJC	147.045	+	UNCOR		
SWANSBORO	KB2XI	146.760	-			
SYLVA	KF4DTL	147.345	+	151.4		
THOMASVILLE	WW4DC	147.000	+	T88.5		
TRENTON	WB4TQD	145.210	-			
TRYON	KF4JVI	145.330	-			
WADESBORO	W4USH	146.835	-			
WASHINGTON	WA4TEP	147.345	+			
WAXHAW	WA4ZRS	146.865	+	T94.8		
WAYNESVILLE	N4SM	147.270	+			
WAYNESVILLE	N4DTR	147.390	+			
WHITEVILLE	W4NTQ	147.210	+			
WILLIAMSTON	K4SER	145.410	-	T131.8		
WILMINGTON	AD4DN	146.670	-	T88.5		
WILMINGTON	W4VNK	146.730	-			
WILMINGTON	K4GMP	146.820	-	T88.5		
WILMINGTON	WA4US	147.135	+	T67.0		
WILMINGTON	AC4RC	147.180	+	T88.5		
WILSON	WB4THL	146.760	-	131.8		
WILSON	WB4IUY	147.300	+	T88.5		
WINSTON-SALEM	W4NC	146.640	-	T100		
YADKINVILLE	N4YSB	147.015	-			
YOUNGSVILLE	KD4MYE	145.110	-	88.5		

220 MHZ

ANDRWS/ROBINSVL	K4AIH	224.880	-	T		
ASHEVILLE	WB4PLA	224.600	-			
ASHVL/MT PISGAH	WA4BVW	224.260	-			
BALD CREEK	N1BEC	224.120	-			
BANNER ELK	WA4NC	224.840	-	PROP		
BARIUM SPRINGS	WA4WRS	224.300	-			
BIG KNB/MARS HIL	KE4RQL	224.660	-	100.0		
BURNSVILLE	KD4WAR	224.740	-			
CANTON	N4DWU	224.820	-			
CHARLOTTE	W4BFB	224.400	-			
CHERRYVILLE	KC4ZTJ	224.960	-			
CLEMMONS	WB9SZL	224.700	-	T100.0		
DUNCAN	KM4TC	224.700	-	T88.5		
EDEN	N4IV	224.780	-	T103.5		
EFLAND	WA1YYN	224.660	-	T107.2		
FAYETTEVILLE	WB4YZF	224.560	-			
FRANKLIN	W4UWH	224.100	-	PROP		
GASTONIA	KC4IRA	224.620	-	T127.3		
GOLDSBORO	W3PS	224.960	-	T156.7		
GREENSBORO	WB4GUG	224.440	-	T107.2		
GREENSBORO	N4QVI	224.960	-			
GRIFTON	WA4DAN	224.840	-			
#GRIMESLAND	WB4PAC	224.360	-	UNCOR		
HAW RIVER	KD4JFN	224.620	-	T107.2		
HENDERSONVILLE	N4UQS	224.960	-			
HENDSVL/BERWLW	WA4KNI	224.240	-			
HILLSBOROUGH	WR4AGC	224.260	-			
JACKSONVILLE	KA4SQN	224.320	-			
KERNERSVILLE	KD4LHP	224.820	-	T107.2		
KVILLE/HIPOINT	KE4QOX	224.240	-	T107.2		
LENOIR/HIBRITN	KN4K	224.160	-			
LEXINGTON	KR4HJ	224.520	-	PROP		
LOCUST	W4DEX	224.480	-			
MARSHALL	WA4TG	224.360	-	T		
MT MITCHELL	WA4BVW	224.540	-			
OXFORD	N4NCK	224.740	-			
PLYMOUTH	KB7BTU	224.760	-	T		
RALEIGH	W4RNC	224.640	-			
ROCKY MOUNT	NF4C	224.220	-			
ROCKY MOUNT	KR4AA	224.580	-			
SALISBURY	W4EXU	224.760	-			
SHELBY	W4NYR	224.060	-			
SHELBY	KC4ZTJ	224.460	-			
SOPHIS/RANDLEMAN	WR4BEG	224.140	-	T		
THOMASVILLE	WW4DC	224.340	-	T88.5		
#THOMASVILLE	KC4KUL	224.600	-	UNCOR		
TRENTON	WA4DAN	224.720	-			
#WALKERTOWN	WA4RQF	224.580	-	UNCOR		
WALKERTOWN	WA4RQF	224.640	-			
WILMINGTON	WA4US	224.200	-	T		
WILMINGTON	AD4DN	224.500	-	T88.5		
WILMINGTON	WB4KPF	224.680	-			
ZEBULON	KD4WJD	224.800	-	T88.5		

440 MHZ

AHOSKIE	WB4YNF	444.200	+	T		
AIR BELLOWS GAP	WA4PXV	443.575	+			
ANDRWS/ROBINSVL	WD4NWV	442.600	+	T151.4		
ANDRWS/ROBINSVL	K4AIH	443.650	+	T		
ANDSN MT/DENVER	K4CCR	444.075	+	88.5		
APEX	KD4PBS	442.075	+	PROP		
ARCHDALE	KC4KUL	443.300	+			
ASHEBORO	WD4ICX	442.325	+			
ASHEBORO	KD4JYV	444.300	+	PROP		
ASHEBORO	KE4AQP	444.975	+			
ASHEVILLE	WA4TOG	442.550	+			
ASHEVILLE	KD4GEU	442.650	+			
ASHEVILLE	KF4TLA	443.275	+	103.5		
AUBURN	N4ZCM	442.275	+			
BALD CREEK	N1BEC	444.875	+			
BREVARD	AG4AZ	442.850	+			
BRYSON CITY	N0SU	443.400	+	T151.4		
BURNSVILLE	KD4WAR	443.650	+			
CANTON	KE4UIU	443.475	+	T156.7		
CARY	K4JDR	444.775	+	T100.0		
CASTALIA	N4JEH	444.975	+	T107.2		
CHAPEL HILL	W4UNC	442.150	+	T131.8		
CHAPEL HILL	W4UNC	443.475	+	T131.8		
CHARLOTTE	W4PPN	421.250	+			
CHARLOTTE	KD4OWV	443.950	+			
CHARLOTTE	W4CQ	444.450	+			
CHARLOTTE	W4BFB	444.600	+	T100.0		
CHARLOTTE	W4WBT	444.675	+			
CHARLOTTE	W4CQ	444.850	+			
CHERRY MTN	KG4JIA	442.500	+	94.8		
CHINA GROVE	N4JEX	443.250	+	T136.5		
CLAREMONT	WB4SRV	443.775	+	T118.8		
CLAYTON	K4JDR	444.150	+	PROP		
COLUMBIA	KB4TOH	443.300	+	131.8		
COLUMBUS	K4JLA	442.075	+	T103.5		
CONCORD	N6CLU	442.675	+	PROP		
CRAB CREEK TWP	KB4PQA	443.125	+			
CROWDER'S MT	KD4FRP	443.675	+			
DALLAS/CHARLTE	WA1WXL	444.950	+	T136.5		
DALLAS/CLT	KC4YOZ	443.850	+	T100.0		
DURHAM	WR4AGC	444.100	+			
DURHAM	KB4WGA	444.925	+	T156.7		
DURHAM TV HILL	KJ4SO	421.250	+			
EFLAND	WA1YYN	442.050	+	T107.2		
ELIZABETH CITY	WA4VTX	444.300	+	T131.8		
FAYETTEVILLE	WB4YZF	444.400	+	100HZ		
FOREST CITY	KC4YOQ	444.400	+			
FRANKLIN	N4DTR	444.375	+	T131.8		
GASTONIA/CRWDR	KC4ZTI	443.750	+			
GASTONIA/CRWDR	AG4EI	444.150	+	T		
GASTONIA/CRWDR	KC4YOT	444.750	+			
GASTONIA/SPCR MT	N4GAS	444.550	+			
GIBSONVILLE	WB4IKY	443.025	+	T107.2		
GIBSONVILLE	WB4IKY	444.350	+	T107.2		
GOLDSBORO	W3PS	443.050	+	T156.7		
GRAHAM	K4GWH	443.725	+	T156.7		
GRANTSBORO	KR4LO	444.350	+			
GREENSBORO	KO4AT	421.250	+			
GREENSBORO	W4GSO	442.875	+	T88.5		
GREENSBORO	KG4BTN	443.650	+	88.5		
GREENSBORO	K4GWH	444.225	+	T146.2		
GREENSBORO	KG4BTN	444.475	+	107.2		
#GREENVILLE	WB4PMQ	444.800	+	UNCOR		
HATTERAS ISLAND	K4OBX	444.925	+	T131.8		
HAW RIVER	KD4JFN	443.775	+	T107.2		
HENDERSON	KG4IWI	442.125	+	PROP		
HENDERSON	KB4WGA	444.375	+	PROP		
HENDERSONVILLE	WA4TOG	442.450	+			
HENDSVL/BERWLW	WA4KNI	444.250	+			
HICKORY	WA4PXV	442.375	+			
HICKORY	K4JEQ	444.000	+			
HICKORY	KF4LUC	444.800	+	T94.8		
HIGH POINT	W4UA	443.900	+			
HIGH POINT	KD4JFN	444.025	+	T107.2		
HILLSBOROUGH	WA1YYN	443.950	+	PROP		
HILLSBOROUGH	WR4AGC	444.450	+	T100.0		
#JACKSONVILLE	KE4JDP	444.675	+	UNCOR		
KANNAPOLIS	N4JEX	443.350	+	T136.5		
KERNERSVILLE	KF4DAR	442.975	+	PROP		
KERNERSVILLE	KF4IXK	443.325	+	T131.8		
#KING/SAURATOWN	KE4QEA	444.200	+	UNCOR		
KINSTON	N4HAJ	444.575	+	T88.5		
KVILLE/H POINT	KE4QOX	443.700	+	T103.5		
LAKE GASTON	KF5TU	442.350	+	T100.HZ		
LENOIR/CAJAH MT	N4EUX	443.525	+			
LEXINGTON	KO0NTZ	442.275	+	T		
LEXINGTON	K4AE	442.425	+	T107.2		
LEXINGTON	K4CH	442.925	+	T107.2		
LEXINGTON	WD4ICX	444.500	+			
LILLINGTON	W4FBC	444.175	+	PROP		
LINCOLNTON	WA4YGD	442.350	+			
LOCUST	WA4LBT	443.700	+			
LOUISBURG	N4EWS	444.250	+	88.5		
LUMBERTON	WB4DVN	444.625	+			
LUMBERTON	KD4BGD	444.700	+	T114.8		
MAYODAN	WA4WGY	443.975	+			
MCLEANSVILLE	WB4GUG	444.125	+	T		
MIDDLESEX	NE4J	444.650	+	T179.9		
MONROE	N4ZVN	444.425	+	T94.8		
MORG/WALKER TOP	KC4QPR	442.300	+	94.8		
MORGANTON	KC4QZL	443.800	+	T		
MOUNT AIRY	N4XRY	444.925	+			

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

N. CAROLINA REPEATERS CONTINUE

MT AIRY/FSH PK	KF4UY	444.825	+	T100.0	☺
MT MITCHELL	N4DWU	443.600	+		☺
NEW BERN	W4EWN	444.900	+	T100.0	☺
NEWPORT CCARS	W4YMI	444.975	+		☺
NEWTON	KE4KIV	442.625	+		
OLD FORT	KR4EX	444.775	+		
OXFORD	KC4WXA	444.600	+		☺
PIKEVILLE	KI4RK	443.000	+	PROP	☺
PINEY KNOB	KC4KPW	443.875	+	T103.5	
PITTSBORO	K1BUD	442.550	+	T	☺
PITTSBORO	KD4JFN	444.750	+	T146.2	☺
POLKVILLE	KC4ZTJ	444.975	+		
RALEIGH	K4SCS	442.025	+	PROP	☺
RALEIGH	N4LMR	442.450	+		
RALEIGH	W4MLU	442.575	+	T156.7	
RALEIGH	NC4SU	442.675	+	100.0	☺
RALEIGH	WA4NNA	443.125	+		☺
RALEIGH	N4ZCM	443.225	+	T	
RALEIGH	W1IFL	443.375	+	T	
RALEIGH	W4RNC	444.525	+	T88.5	☺
RALEIGH	K4GWH	444.825	+	T146.2	☺
RALEIGH	KD4RAA	444.875	+	T100.0	☺
REIDSVILLE	K4YEC	444.800	+	T107.2	
RES. TRIANGLE PK	WA1YYN	443.425	+	T156.7	☺
ROANOKE RAPIDS	KA4BQM	444.550	+	T192.8	
ROARING GAP	KC4XE	443.550	+		☺
ROCKY MOUNT	N4JEH	443.700	+	T107.2	☺
ROCKY MOUNT	N4JEH	444.700	+		☺
ROCKY MOUNT	KG4IWI	444.725	+	PROP	
ROLLESVILLE	KF4HFQ	444.950	+	PROP	
ROUGEMNT/RED MT	WA4WTX	443.275	+	100.0	☺
ROXBORO	N4LWK	442.175	+	PROP	
RTP	W4EUS	443.625	+		
SALISBURY	W4HG	443.150	+		
#SALISBURY	N4MME	444.650	+	UNCOR	
SAURATOWN MT	WA1YYN	442.825	+	PROP	☺
SAURATOWN MT	KE4QOX	443.100	+	T88.5	☺
SAURATOWN MT	WB4GUG	443.400	+	T107.2	☺
SELMA	KI4RK	444.000	+		☺
#SHELBY	W4NYR	427.250	+	UNCOR	
SOPHIA/RANDLEMAN	WR4BEG	443.075	+		
SOUTHERN PINES	KD4QMS	444.800	+	T118.8	
SPINDALE	KC4IEV	443.300	+	T123.0	☺
SPIVEY'S CORNER	KD4DMS	442.875	+		
#STANFIELD	W4DEX	443.200	+	UNCOR	☺
STATESVILLE	N4VOZ	443.450	+		
STATESVILLE	AE4GA	444.700	+	PROP	
TARBORO	N4JEH	444.500	+	T100.0	☺
TAYLORSVILLE	W4ERT	441.625	+	T151.4	☺
TAYLORSVILLE	W4ERT	441.725	+	PROP	☺
TAYLORSVILLE	W4ERT	442.950	+	T151.4	☺
THOMASVILLE	WW4DC	442.900	+	T88.5	☺
#WALKERTOWN	WA4RQF	444.775	+	UNCOR	☺
WAXHAW	WA4ZRS	444.525	+	T94.8	☺
WAYNESVILLE	N4DTR	444.450	+		☺
WENTWORTH	N4IV	442.100	+	PROP	
WEST JEFFERSON	AB4JJ	443.500	+	T107.2	
WHITAKER MTN	WA4QFV	444.325	+		
WILKESBORO	KE4DGP	442.475	+	T107.2	
WILLIAMSTON	K4SER	444.250	+	T131.8	☺
WILMINGTON	N4JDW	442.075	+	T88.5	
WILMINGTON	WA4US	442.175	+		☺
WILMINGTON	WA4US	442.200	+	T	☺
WILMINGTON	K4YNY	442.500	+	T88.5	☺
WILMINGTON	AD4DN	443.400	+	T88.5	☺
WILMINGTON	WA4US	443.850	+		☺
WILMINGTON	WA4US	443.950	+		☺
WILMINGTON	WA4US	444.200	+		☺
WILMINGTON	WA4US	444.450	+		☺
WILMINGTON	WA4US	444.650	+		☺
WILMINGTON	K4GMP	444.850	+	T88.5	☺
WILSON	NE4J	444.900	+	T179.9	☺
WINGATE	WB4U	444.875	+	T127.3	☺
WINSTON-SALEM	KU4MC	442.575	+	PROP	☺
WINSTON-SALEM	W4NC	444.275	+	PROP	☺
WINSTON-SALEM	KD4MMP	444.725	+	T107.2	☺
YADKINVILLE	N4AAD	442.800	+	T100.0	☺
YOUNGSVILLE	KD2LH	443.200	+	T88.5	☺
ZEBULON	WB4IUY	442.300	+	88.5	
ZEBULON	KD4WJD	442.400	+		

920 MHZ

RALEIGH	W4FAL	920.800	-	T156.7	☺

1270 MHZ

#CHARLOTTE	W4PPN	1253.250	+	UNCOR	☺
CONCORD	N6CLU	1285.000	-	PROP	☺
GASTONIA/CRWDR	AG4EI	1292.820	-		☺
WILMINGTON	AD4DN	1291.410	-	88.5	☺
ZEBULON	WB4IUY	427.250	+		

SOUTH CAROLINA

10 METERS

SUMTER	W4GL	29.660	-		☺

6 METERS

BISHOPVILLE	K4NOC	53.090	-	PROP	
BLYTHEWOOD	N0WFL	53.010	-	PROP	
CHESTER	KF4SXO	53.290	-		
GILBERT	KC4GYM	53.270	-	T162.2	☺
GVL/CSR'S HEAD	KO4MZ	53.410	-	T131.8	☺
LITTLE MOUNTAIN	KN4AS	53.190	-	T156.7	
MOUNTAIN REST	KF4IWA	53.590	-		
ORANGEBURG	AD4U	53.210	-	PROP	
ORANGEBURG	AD4U	53.210	-	PROP	
SUMTER	W4GL	53.770	-		☺

2 METERS

ADAMS RUN (CHAS)	KF4CDR	147.345	+	T	☺
AIKEN	KY4S	145.170	-		☺
AIKEN	N4ADM	147.285	+		☺
ANDERSON	N4AW	146.970	-		☺
ANDERSON/SAS MT	N4AW	146.790	-		☺
AWENDAW	K4LWS	147.300	+	T103.5	
BAMBERG	WA4DFP	145.330	-		
BARNWELL	KF4CVO	147.030	+	T156.7	☺
BEAUFORT	W4IAR	145.310	-		☺
BEAUFORT	KD4KOJ	146.655	-		☺
BISHOPVILLE	K4NOC	145.170	-	T123.0	
BISHOPVILLE	W4APE	146.925	-		☺
CAMDEN	KT4NZ	146.820	-	PROP	
CHARLESTON	WA4USN	145.250	-	123.0	
CHARLESTON	WA4USN	146.790	-		
CHARLESTON	KT4YW	146.835	-		☺
CHARLESTON	KF4CDR	146.940	-		☺
CHARLESTON AREA	W4ANK	147.270	+		☺
CHERAW	W4APE	145.490	-		☺
CHESTER	W4CHR	145.310	-		☺
CHESTER	KF4SXO	146.625	-		
CHESTERFIELD	KF4GPE	147.135	+		☺
CLEMSON UNIV	WD4EOG	145.450	-	T	
COLUMBIA	N0YVN	145.190	-	PROP	
COLUMBIA	KC4GYM	145.270	-	T127.3	☺
COLUMBIA	WB4NEP	146.715	-		
COLUMBIA	N4EOY	147.360	+		
DILLON/PEE DEE	NN4N	146.745	-		
EASTOVER	KT4BU	147.075	+	T156.7	☺
ELLOREE	KC4WIF	146.610	-	T118.8	
FLORENCE	W4ULH	146.850	-		☺
FLORENCE	W4GEY	146.970	-		☺
FLORENCE	W4APE	147.195	+		☺
FORT JACKSON	KF4GHC	146.775	-	T156.7	☺
FORT MILL	WZ4SC	145.110	-		☺
FORT MILL	W4DXA	147.180	+		☺
GAFFNEY	KN4RG	145.470	-	T141.3	☺
GEORGETOWN	KI4CB	147.375	+	T179.9	☺
GILBERT	KF4GHC	145.430	-	T156.7	☺
GREELEYVILLE	KG4AQH	145.230	-		☺
GREENVILLE	W4IQQ	146.940	-	T7	☺
GREENWOOD	W4JAK	145.130	-	123.0	☺
GREENWOOD	W4GWD	147.165	+	107.2	☺
#GREENWOOD	K4LEO	147.375	+	UNCOR	
GRNVLE/CSRS HD	W4NYK	146.610	-		
GRNVLE/PARIS MT	W4NYK	146.820	-		
HILTON HEAD	W4IAR	147.240	+	T	☺
INMAN	K8HID	145.150	-		
JACKSON	W4ZKM	145.450	-	PROP	☺
LANCASTER	W4PAX	146.700	-		☺
LANCASTER	AC4VT	147.240	+	T88.5	
LAURENS	KD4HLH	146.865	-	T107.2	☺
LEESVILLE	W4RRC	147.255	+	T123.0	☺
LEXINGTON	NS4SC	145.210	-		☺
LEXINGTON	KA4FEC	147.390	+		☺
LITTLE MT.	K4AVU	147.210	+		
MARION	WA4MRV	147.000	-		☺
MONCKS CORNER	WD4NUN	147.150	+	T	☺
MOUNTAIN REST	KU4OL	147.030	-	PROP	
MT PLEASANT	K4ESG	146.760	-	T	
MT. PLEASANT	N7GZT	145.450	-	T	
MYB BCH/BRKSVIL	N4LV	147.285	+		☺
MYR BCH/CONWAY	W4GS	145.110	-		☺
MYR BCH/CONWAY	KI4CB	145.470	-	T179.9	☺
MYRTLE BEACH	W4GS	145.290	-	85.4	☺
MYRTLE BEACH	W4GS	147.120	+		☺
N. AUGUSTA	K4NAB	146.730	-	T	☺
#N. MYRTLE BEACH	K4NMB	147.030	+	UNCOR	☺
N. SPARTANBURG	N4UZT	147.315	+	T141.3	
ORANGEBURG	KF4ATU	146.805	-	T156.7	☺
ORANGEBURG	KF4IIM	146.880	-	T118.8	
ORANGEBURG	KF4ATU	147.090	+	T156.7	☺
PAGELAND	W4APE	146.895	-		☺
PICKENS	WR4PKZ	146.700	-	107.2	☺
PICKENS	WB4YXZ	147.000	-		
PUMPKINTOWN	KU4ZS	145.290	-	PROP	
ROCK HILL	K4YTZ	147.030	-		
SENECA/LONG MT	WA4JRJ	147.270	+		
SIMPSONVILLE	WA4UKX	146.730	-	100.0	☺
SPARTANBURG	K4JLA	147.090	+		☺
ST. GEORGE	K4ILT	147.045	+	123.7	☺
ST. GEORGE	W4DTW	147.225	+		☺
ST. MATTHEWS	AD4U	146.670	-	T156.7	
SUMMERTON	N4LWY	145.150	-		
SUMMERVILLE	W4HNK	147.180	+	123.0	☺
SUMTER	K4JR	145.130	-		
SUMTER	W4GL	146.640	-		☺
SUMTER	W4GL	147.015	+	156.7	☺
SUMTER/SHAW	W4VFR	147.060	+		
UNION	K4USC	145.250	-		☺
UNION	K4USC	146.685	-		☺
WALTERBORO	KG4BZN	147.135	+	T	☺
WHITE HALL	W4BWZ	146.910	-		☺
#WHITE OAK MTN	W4RCW	147.285	+	UNCOR	

220 MHZ

BISHOPVILLE	K4NOC	224.860	-		
CHARLESTON	KA4NRL	224.180	-		
COLUMBIA	KC4GYM	224.560	-	T162.2	☺
COLUMBIA	KC4SWI	224.640	-		
COLUMBIA	N4EOY	224.900	-		
CROSS	KB4VFD	224.580	-		
FLORENCE	N4JJ	224.940	-		
FORT MILL	WZ4SC	224.800	-		
GREENVILLE	W4ILY	224.200	-		☺
GRNVL/DOWNTWN	W4NYK	224.920	-	88.5	
LITTLE MTN	K4RWN	224.520	-		
ORANGEBURG	KO4BR	224.780	-		
PICKENS	AC4RZ	224.280	-		
PICKENS	WB4QHF	224.400	-	T131.8	☺
PICKENS/CSRS HD	WB4QHF	224.140	-	T131.8	☺
PICKENS/SASFR MT	W4IT	224.320	-		☺
SUMTER	W4GL	224.120	-		☺
SUMTER/SHAW	W4VFR	224.660	-		
WEST SPRINGS	KN4CW	224.440	-		

440 MHZ

AIKEN	AC4WW	443.400	+	T107.2	☺
BISHOPVILLE	K4NOC	444.500	+	123.0	
#BLUFFTON	WA4MPZ	442.675	+	UNCOR	☺
BLYTHEWOOD	N0YNV	444.000	+	PROP	
CHARLESTON	KF4CDR	442.775	+	T	☺
CHARLESTON	N4MNH	444.300	+		☺
CHARLESTON	KD4PBC	444.950	+	103.5	☺
CLEMSON UNIV.	WD4EOG	444.625	+	T156.7	
COLUMBIA	N4EOY	443.000	+		
COLUMBIA	KF4GHC	444.200	+	T156.7	☺
COWPENS	KE4EAN	443.625	+	T136.5	☺
EASLEY/SAS MTN	AC4RZ	444.925	+	T103.5	
FLORENCE	W4ULH	444.000	+		
FORT MILL	WZ4SC	443.475	+		☺
GAFFNEY	KC4IEV	442.000	+	114.8	☺
GILBERT	N5CWH	443.500	+	PROP	
GREENVILLE	KB4PQA	442.250	+		
GREENWOOD	W4GWD	443.900	+	107.2	☺
GRNVLE/PARIS MT	ND4N	443.350	+		☺
KNIGHTSVILLE	WA4USN	441.350	+		☺
LANCASTER	KC4AC	444.100	+		
LAURENS	KD4HLH	443.175	+	T146.2	☺
LAURENS	KF4Y	443.775	+	T141.3	
LEXINGTON	N4GUP	421.250	+		
LIBERTY	N4VDE	443.975	+	PROP	
LITTLE MT	NK4W	442.975	+	T162.2	
MOUNTAIN REST	AE4PZ	442.775	+	T127.3	
MT. PLEASANT	WA4USN	441.450	+	PROP	☺
MT. PLEASANT	KD4CHL	444.875	+		
MYB BCH/BRKSVIL	N4LV	444.525	+		☺
MYR BCH/CONWAY	W4GS	444.675	+		☺
MYRTLE BEACH	K2PJ	444.575	+	85.4	☺
NO. CHARLESTON	KT4YW	444.600	+		☺
ORANGEBURG	N7GZT	442.200	+	T	
ORANGEBURG	WM3O	444.975	+		☺
PICKENS	WR4PKZ	442.125	+		☺
PICKENS/CSRS HD	WB4QHF	442.400	+	T127.3	☺
SIMPSONVILLE	N4GLB	442.725	+		☺
SUMMERVILLE	KC4ED	442.300	+	T	☺
SUMMERVILLE	W4HNK	443.800	+		☺
SUMTER	WZ4O	421.250	+		
SUMTER	W4GL	444.150	+	123.0	☺
UNION	K4USC	442.100	+	PROP	☺

1270 MHZ

BLYTHEWOOD	N0WFL	1292.000	-	PROP	

TENNESSEE

BEACON

GREENEVILLE	WB4NKM	222.058	-		

10 METERS

GALLATIN/BNA	W4CAT	29.640	-	T107.2	
GREENEVILLE	WB4NKM	29.640	-		
MEMPHIS	W4ZJM	29.620	-	T*#	
SPRINGFIELD	N8ITF	29.680	-	88.5	
TELLICO PLAINS	AJ4D	29.620	-	PROP	☺

6 METERS

CHATTANOOGA	K4VCM	53.350	-		
COOKEVILLE	WA4UCE	53.190	-	PROP	☺
DRESDEN	KE4OVN	53.710	-	T107.2	
GALLATIN	WA4BGK	53.050	-	T114.8	
GRAY/HOLSTON MT	WM4T	53.010	-		
GUTHRIE (TN/KY)	KA4ZKL	53.230	-		
KINGSPORT	K4GX	53.430	-	PROP	
#KNOXVILLE	WA4YON	53.250	-	UNCOR	
KNOXVILLE	N4OQJ	53.550	-	PROP	
KNOXVILLE	W4BBB	53.770	-	PROP	☺
KNXVL/ENG MT	WB4IOB	53.150	-		☺

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq) # and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

TENNESSEE REPEATERS CONTINUE

LAFOLLETTE	K4BGW	53.170	-	PROP	
MARYVILLE	KC4PDQ	53.370	-		☺
MCNAIRY	NU5O	53.350	-	T107.2	☺
MEMPHIS	WA4KOG	53.010	-		
MEMPHIS	K4RDK	53.550	-		
MEMPHIS	W4GMM	53.930	-	T107.2	☺
MONTEAGLE MTN	NQ4Y	53.450	-	114.8	☺
MORRISTOWN	KF4FTD	53.030	-	PROP	
MORRISTOWN	KQ4E	53.230	-		
NASHVILLE	WA4BGK	53.010	-	T114.8	
NASHVILLE	N4ARK	145.210	-		☺
OAK RIDGE	WD4GYN	53.110	-		
ROAN MTN	KD4SQB	53.310	-		
#ROGERSVILLE	K4GX	53.750	-	UNCOR	
SPRINGFIELD	N8ITF	53.150	-	107.2	
WAVERLY	NO4Q	53.090	-		☺

2 METERS

ALAMO	WB4EDS	147.135	+		
ANDERSON CTY	KF4BVQ	146.700	-	T100.0	
ARNOLD A.F.B.	KC4FV	147.195	+		☺
ATHENS	KG4FZR	145.150	-	T141.3	☺
ATHENS	WA4PNI	145.310	-	T141.3	☺
BENTON	K4SIR	145.450	-	T	
BLOUNTVILLE	W4CBX	147.000	+		☺
BOLIVAR	WD4OZN	147.045	+		☺
BRADEN	WA4KOG	145.490	-		
BRISTOL	W4UD	146.670	-		☺
BRISTOL	WD4CYZ	146.880	-		
BROWNSVILLE	KB4YTU	145.430	-		
BROWNSVILLE	KD4AOK	146.655	-		
BRSTL/HOLSTN MT	K4JP	146.760	-		
BRUCETON	KF4SCT	145.170	-	T107.2	☺
BUCKSNORT	KF4SCT	145.430	-	T107.2	☺
CARLISLE	KT4WS	145.250	-		☺
CARTHAGE	N4OTT	145.190	-		☺
CHARLESTON	KD4LDU	147.060	-	T141.3	
CHATTANOOGA	K4CMY	145.130	-		☺
CHATTANOOGA	W4AM	145.290	-	T118.8	☺
CHATTANOOGA	W4AM	145.390	-		☺
CHATTANOOGA	W4AM	146.610	-		☺
CHATTANOOGA	W4AM	146.790	-		☺
CLARKSVILLE	WD4SGA	147.000	+		
#CLARKSVILLE	KF4L	147.390	+	UNCOR	
CLEVELAND	W4GZX	146.925	-		☺
CLEVELAND	KD4NEC	147.105	+	PROP	
CLEVELAND	WD4DES	147.180	+	T118.8	☺
COLLEGEDALE	KA6UHV	147.000	+		☺
COLLIERVILLE	WT4E	145.330	-	PROP	
COLUMBIA	W4GGM	147.120	+		☺
COOKEVILLE	NQ4Y	145.110	-		☺
COOKEVILLE	WA4UCE	145.430	-		☺
COOKEVILLE	N4WS	147.210	+		☺
CORNERSVILLE	KF4TNP	146.625	-	PROP	
CROSS PLAINS	K4BBN	147.345	+		☺
CROSSVILLE	W4EYJ	146.805	-		☺
CROSSVILLE	KF4DPU	146.865	-		
CROSSVILLE	KF4HNV	146.895	-	PROP	
CUMBERLAND CITY	WD4DBJ	145.330	-		☺
CUMBERLAND CITY	WA4TLZ	146.925	-	T127.3	
DANDRIDGE	WD4EGD	146.895	-	T	
DAYTON	K4PHT	147.345	+		
DAYTON/RHEA CTY	K4DPD	147.390	+		
DICKSON	KN4HL	147.375	+		☺
DOVER	N4VIH	145.410	-		☺
DRESDEN	KE4OVN	145.350	-	T107.2	
DYERSBURG	WB4RCK	146.745	-		
ELIZTON/HOLS MT	KF4ZQA	145.290	-		☺
ERWIN/PINNACLE	N4WXS	145.250	-	T	
ERWIN/UNICOI	KF4BRS	147.165	+		
EVA	AD4QG	147.090	+		
FAYETTEVILLE	W4BV	147.030	+		☺
FRANKLIN	W4XS	145.150	-		
FRANKLIN	WA4JA	147.255	+		
FRUITLAND	KF4SCT	146.775	-	T107.2	☺
GALLATIN	N4SSB	145.130	-	T107.2	
GALLATIN	W4LKZ	147.240	+	T114.8	
GALLATIN	WA4YQC	147.270	+	T114.8	
GALLATIN	W4CAT	147.300	+	T114.8	
GERMANTOWN	W2GLJ	145.210	-		☺
GRAY	WM4T	145.110	-		
GREENBRIER	WQ4E	147.075	+	T107.2	☺
GREENEVILLE	W4WC	145.390	-		☺
GRNVL/VIKING MT	WB4NKM	145.410	-	173.8	☺
GRNVL/VIKING MT	KB4UG	147.060	+		
GTLBG/COVE MTN	WA4KJH	146.850	-	T127.3	
HARRIMAN	KA4QYI	146.640	-	T100.0	☺
HARRIMAN	KC4WHL	146.745	-		☺
HENDERSON	K4TC	147.105	+	T	☺
HENDERSONVILLE	WB4WZK	145.270	-	T	☺
HUNTINGDON	KB4YTM	146.835	-		
JACKSON	KF4SC	145.310	-		☺
JACKSON	WF4Q	147.210	+	T107.2	☺
JACKSON	WB0TMC	147.270	+		
JAMESTOWN	K4NLP	147.090	+	T100.0	☺
JASPER	KD4XV	145.190	-	T127.3	☺
JOHNSON CITY	W4ABR	146.790	-		☺
JOHNSON CITY	KE4FH	147.270	+		
JONESBOROUGH	WD4OBW	146.925	-		☺
KNGSPT/BAYS MT	W4TRC	146.970	-		
KNOXVILLE	WB4GBI	145.170	-		☺
KNOXVILLE	WA4TEM	145.330	-		☺
KNOXVILLE	KB4KIE	145.370	-		
KNOXVILLE	WB4YLC	145.430	-		☺
KNOXVILLE	WB4GBI	145.470	-		☺
KNOXVILLE	WB4GBI	146.625	-	T100.0	☺
KNOXVILLE	KC4ROG	146.910	-	T	
KNOXVILLE	WB4GBI	146.940	-		☺
#KNOXVILLE	KD4CWB	147.000	-	UNCOR	
KNOXVILLE	WB4GBI	147.075	+		☺
KNOXVILLE	KD4CWB	147.195	+	PROP	
KNOXVILLE/RACK	W4BBB	145.210	-	T100.0	☺
KNOXVILLE/RACK	W4BBB	147.300	+	T100.0	☺
KNXVL/ENG MT	WB4IOB	146.730	-		☺
LAFAYETTE	KC4ECD	145.310	-	T151.4	☺
LAFOLLETTE	KA4OAK	145.130	-		
LAFOLLETTE	K4BGW	146.670	-		☺
LAFOLLETTE	KA4OAK	147.360	+		
LAKE CITY	WB4OAH	146.820	-		
LAVERNE	W4CAT	145.230	-		
LAWRENCEBURG	W4RDM	146.655	-	T	☺
LEBANON	WB4DOR	145.390	-		
LEBANON	W4LYR	147.105	+	T100.0	☺
#LEWISBURG	WB4VXX	146.805	-	UNCOR	
LIVINGSTON	N2UP	147.045	+		☺
MANCHESTER	W4UOT	146.700	-	T114.8	☺
MARTIN	N4ABU	146.625	-		
MARYVILLE/ALCOA	W4OLB	146.655	-		☺
MAYNARDVILLE	KB4KIE	145.230	-		
MCMINNVILLE	WD4MWQ	146.970	-		
MCMINVL/SHT MT	WB4LHO	145.490	-		☺
MCNAIRY	KF4SCT	147.075	+	T107.2	☺
MEDINA	WA4RWK	146.970	-		
MEMPHIS	KF4SCT	145.130	-	T107.2	☺
MEMPHIS	K0JXI	145.150	-		
MEMPHIS	K5FE	145.410	-	T107.2	
MEMPHIS	WA4KOG	145.450	-		
MEMPHIS	WB4KQQ	146.640	-		
MEMPHIS	KE4LFZ	146.730	-	T107.2	☺
MEMPHIS	W4KIB	146.790	-	T107.2	☺
MEMPHIS	W4BS	146.820	-	T	
MEMPHIS	WA4KOG	146.850	-		
MEMPHIS	WA4KOG	146.880	-		
MEMPHIS	N4BSM	146.940	-	T107.2	
MEMPHIS	W4ZJM	147.000	-	T*#	
MEMPHIS	W4EM	147.030	+		☺
MEMPHIS	WA4MQQ	147.060	+		
MEMPHIS	W4GMM	147.090	+	T107.2	☺
MEMPHIS	N4WAH	147.120	+	T107.2	
MEMPHIS	WA4KOG	147.180	+		
MEMPHIS	WA4ADT	147.300	+	107.2	
MEMPHIS	W4BS	147.360	+	T107.2	
MONTEAGLE MTN	NQ4Y	145.410	-	T114.8	☺
MORGAN COUNTY	WD4ORB	147.330	+	T82.5	☺
MORRISTOWN	KQ4E	145.450	-		
MORRISTOWN	KQ4E	147.030	+		
MORRISTOWN	WB4OAH	147.225	+		
#MORRISTOWN	KQ4E	147.390	+	UNCOR	
MOUNTAIN CITY	KF4RBR	145.470	-	103.5	☺
#MT PLEASANT	KF4GHD	145.450	-	UNCOR	☺
MURFREESBORO	WB4LHO	145.170	-		☺
NASHVILLE	KC4WPS	145.130	-	PROP	
NASHVILLE	N4ARK	145.210	-		☺
NASHVILLE	N4ARK	52.525	+		☺
NASHVILLE	WR3S	145.370	-		☺
NASHVILLE	N4ARK	145.470	-		☺
NASHVILLE	WA4PCD	146.610	-	T	☺
NASHVILLE	WA4PCD	146.760	-	T114.8	☺
NASHVILLE	W4SQE	146.790	-	T	☺
NASHVILLE	W4AY	146.850	-	T114.8	☺
NASHVILLE	WA4PCD	146.880	-	T	☺
#NASHVILLE	NT4L	146.955	-	UNCOR	
NASHVILLE	KC4PRD	146.985	-		☺
NASHVILLE	AF4TZ	147.015	+	T	☺
NASHVILLE	K4AYN	147.045	+		
NASHVILLE	K4ZGA	147.180	+	T114.8	
NASHVILLE	AF4TZ	147.360	+	T	☺
NASHVILLE W	AF4TZ	146.640	-	T114.8	☺
NASHVILLE W	AF4TZ	146.670	-	T114.8	☺
NASHVILLE WEST	WA4PCD	147.150	+	T114.8	☺
NASHVL/FAIRVIEW	N4ARK	145.110	-	151.4	☺
NOLENSVILLE	WD4JYD	145.350	-	114.8	☺
OAK RIDGE	W4SKH	146.880	-		☺
OAK RIDGE	W4SKH	146.970	-		☺
OAK RIDGE	K4EAJ	147.120	+	T82.5	☺
OAK RIDGE	K4EAJ	147.150	+	T82.5	☺
OAKFIELD	WA4BJY	147.390	+	T	
PARIS	K4KLX	147.360	+		
PETROS/FRZ HD MT	KJ4SI	147.255	+		☺
PIGEON FORGE	KD4CLA	145.270	-	T100.0	
PIKEVILLE	KF4JPT	147.285	+		☺
PULASKI	WD4RBJ	147.330	+	PROP	
PULASKI/MUSIC MT	W4JVO	146.775	-		
PURYEAR	WA4CEX	147.165	+		
RAMER	WB4MMI	146.700	-	T107.2	☺
RCKWD/MT ROSVLT	AA4KS	147.015	+		☺
RIDGETOP	K4DXC	145.290	-	114.8	☺
RIPLEY	KE4NTL	145.230	-	T100.0	☺
ROGERSVILLE	KD4HZN	147.315	+	T114.8	
SALTILLO	KB4JUB	146.715	-		
SARDIS	AF4OQ	147.195	+		
SELMER	WB4MMI	146.805	-	T107.2	☺
SHELBYVILLE	N4VFB	147.060	+		
SHILOH	KF4SCT	145.290	-	T107.2	☺
SHORT MTN	W4YXA	146.910	-		
SOMERVILLE	KF4SCT	145.110	-	107.2	☺
SPARTA	N4ARK	147.315	+	T123.0	☺
SPARTA/WHITE	KR4BT	147.165	+	T123.0	☺
TELLICO PLAINS	AJ4D	147.315	+	T141.3	☺
TRENTON	KN4KP	146.865	-		
UNION CITY	WA4YGM	146.700	-		
UNION CITY	KF4SCT	147.015	+	T107.2	☺
WALLAND	KF4ARH	146.685	-	T88.5	
WATERTOWN	KD4EHL	146.730	-	T100.0	☺
WATERTOWN	W4LYR	146.835	-	T100.0	☺
#WAVERLY	NO4Q	147.225	+	UNCOR	☺
WINCHESTER	AB4SW	146.820	-		☺

220 MHZ

BLOUNTVILLE	W4CBX	224.200	-		☺
CHATTANOOGA	K4VCM	224.780	-		☺
CLEVELAND	KK4US	224.320	-		
COLLIERVILLE	KB4YGI	224.400	-		
ERWIN	KB8FPK	224.180	-	88.5	
GALLATIN	W4CAT	223.980	-		
GALLATIN	KD4VUW	224.700	-		
GATLINBURG	W4UWH	224.620	-		☺
GRAY	WM4T	224.900	-		
GREENBRIAR	WQ4E	224.800	-		☺
GREENBRIER	WQ4E	224.760	-		☺
GREENEVILLE	WB4NKM	224.940	-		
HERMITAGE	WB4SJV	223.900	-		
JC/BUFFALO MT	KE4FH	224.780	-		
KNOXVILLE	WB4GBI	224.340	-	PROP	☺
KNOXVILLE	N4OQJ	224.380	-	100.0	
KNOXVILLE	N4KFI	224.580	-	T103.5	
KNOXVILLE	K4PCK	224.760	-		☺
KNOXVILLE/RACK	W4BBB	224.500	-	T100.0	☺
KNXVL/CROSS MT	KB4FZK	224.220	-	T100.0	
LAFOLLETTE	KA4OAK	224.280	-		
LAVERGNE	WR3S	224.360	-		☺
MEMPHIS	W4ZJM	223.940	-	T*#	
MEMPHIS	W4BS	224.420	-		
MEMPHIS	WA4KOG	224.780	-		
MORRISTOWN	N4RBB	224.400	-		
MORRISTOWN	KC4RGQ	224.640	-		
MURFREESBORO	KD4TZZ	224.600	-	PROP	
NASHVILLE	WR3S	224.160	-		☺
#NASHVILLE	KD4TFQ	224.440	-	UNCOR	
NASHVILLE	WR3S	224.460	-	PROP	☺
NASHVILLE	KZGA	224.480	-		
NASHVILLE	WR3S	224.660	-		☺
NASHVILLE	N4PYI	224.740	-	T100.0	☺
NASHVILLE	KC4PRD	224.840	-		
NASHVILLE	WA4PCD	224.940	-	T	☺
NEWPORT	AC4JF	224.560	-	T100.0	☺
ONEIDA	KB4PNG	224.140	-		
ROGERSVILLE	KD4HZN	224.480	-	PROP	
S. PITTSBURG	WR3S	224.760	-	PROP	☺
SE NASHVILLE	WR3S	224.960	-	PROP	
SEVIERVILLE	N2FUV	224.440	-	T	
SEVIERVILLE	KD4IBW	224.700	-	T100.0	
SEVIERVILLE	KD4IBW	224.800	-		
SHORT MTN.	N4PYI	224.260	-	T114.8	☺
SIGNAL MT	W4LOC	224.920	-	PROP	
SMITHVILLE	WR3S	223.960	-		☺
SPRINGFIELD	KO4BN	224.220	-		
SPRINGFIELD	N8ITF	224.540	-	107.2	
SWEETWATER	WD9JGI	224.900	-	T	

440 MHZ

ALAMO	WB4EDS	443.750	+		
ARNOLD A.F.B.	KC4FV	443.950	+		☺
BARTLETT	K4VVM	443.700	+	T107.2	☺
BARTLETT	WA4PAJ	444.250	+		
BETHPAGE	KD4YUX	442.200	+	T107.2	
BIG SANDY	W4TLB	443.600	+	114.8	☺
BRSTL/HOLSTN MT	K4JP	444.500	+		
CHAT/MNTLAKE MT	KD4UWA	444.875	+	T156.7	
CHAT/WALDEN	AF4ZJ	442.425	+		
CHATT/HIXSON	N4WT	442.900	+		☺
CHATTANOOGA	WJ9J	442.150	+		☺
CHATTANOOGA	KT4QL	443.125	+	PROP	
CHATTANOOGA	KT4QL	443.125	+	PROP	
CHATTANOOGA	WB4LRD	443.550	+		
CHATTANOOGA	KD4HII	443.900	+	T	
CHATTANOOGA	W4AM	444.100	+		☺
CHATTANOOGA	KD4HII	444.200	+	T	
CLARKSVILLE	WA4BZU	444.325	+	T107.2	
CLARKSVILLE	KF4GP	444.950	+	T167.9	
CLEVELAND	WD4DES	442.250	+	T118.8	☺
CLEVELAND	KD4NEB	442.450	+	T88.5	
CLEVELAND	W4GZX	444.275	+		☺
COLLEGEDALE	KA6UHV	443.575	+		☺
COLLIERVILLE	KA7UEC	443.300	+	107.2	☺
COLLIERVILLE	KA7UEC	443.625	+	T107.2	☺
COLLIERVILLE	WT4E	444.625	+	T107.2	
COLUMBIA	W4RDM	442.725	+		☺
COLUMBIA	WA4AKM	444.925	+	T107.2	
COOKEVILLE	WA4UCE	442.300	+	107.2	☺

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

TENNESSEE REPEATERS CONTINUE

COOKEVILLE	WS4S	444.600	+	PROP	
COOKEVILLE	NQ4Y	444.550	+	T107.2	☺
CROSSVILLE	W4EYJ	444.950	+	T118.8	☺
CUMBERLAND CITY	WD4DBJ	443.400	+		☺
DAYTON	KJ4BJ	442.075	+		☺
DEASON	WA4AWI	443.350	+	T107.2	☺
DECATUR	KE4MBR	442.725	+	PROP	
DOVER	N4VIH	444.925	+		☺
DRESDEN	KA4BNI	442.150	+		☺
DRESDEN	KE4OVN	443.850	+	T107.2	
ETOWAH	KF4CFO	442.275	+	141.3	☺
EVA	AD4QG	443.625	+		
FRANKLIN	N4ULM	443.850	+		
FRANKLIN	WA4AKM	444.725	+	T107.2	
GALLATIN	WD4BKY	444.000	+	T107.2	
GALLATIN	WD4BKY	444.350	+	T114.8	
GALLATIN	W4CAT	444.450	+	T107.2	
GALLATIN	WA4AKM	444.775	+	T107.2	
GATLBG/COVE MT	WA4KJH	443.300	+	T127.3	
GEORGETOWN	WD4OAR	442.925	+	107.2	☺
GERMANTOWN	W2GLJ	444.175	+		☺
GOODLETTSVILLE	KC4PRD	443.125	+	107.2	
GRAY	WM4T	442.200	+	T100.0	
GREENBRIER	WQ4E	444.250	+		☺
GREENEVILLE	WB4NKM	444.650	+	T100.0	
GREENEVILLE	K4GX	444.950	+	PROP	
GRNVLE/VIKING MT	W4WC	443.200	+	100.0	
HARRIMAN	KC4WHL	442.875	+	T136.5	☺
HARRIMAN	KC4WHL	444.025	+		☺
HENDERSON	KE4PFW	442.275	+		
HENDERSON	K4TC	444.750	+	T	☺
HICKORY VALLEY	KA4JXT	443.125	+	107.2	☺
HOHENWALD	WB4NNX	442.000	+		☺
HUNTINGDON	KB4YTM	444.375	+		
JACKSON	KE4CES	442.900	+	T114.8	☺
JACKSON	WB0TMC	444.725	+	T107.2	
JAMESTOWN	KC4MJN	443.625	+	T100.0	
JASPER	KD4XV	442.050	+	T127.3	☺
JEFFERSON CITY	KD4TUD	444.625	+	T	
JOHNSON CITY	KE4FH	444.100	+		
JOHNSON CITY/BUF	WD4ATV	421.250	+		☺
JOHNSON CITY/HOL	WB4SQC	442.050	+	T100.0	
KNOX/ENGLSH MT	WB4HAP	444.600	+		☺
KNOXVILLE	WB4HAP	442.500	+	T103.5	☺
KNOXVILLE	N4UAG	443.025	+		
KNOXVILLE	KA4AZQ	443.075	+	PROP	
KNOXVILLE	KD4CWB	443.500	+	T	
KNOXVILLE	KA4AZQ	443.800	+	T100.0	
KNOXVILLE	KD4OBX	443.950	+		
KNOXVILLE	KD4CWB	444.000	+	PROP	
KNOXVILLE	KC4NNN	444.175	+	T	
KNOXVILLE	WB4GBI	444.300	+		☺
KNOXVILLE	KB4KSL	444.325	+		
KNOXVILLE	KC4NNN	444.425	+	T	
KNOXVILLE	KD4IBW	444.525	+	T100.0	
KNOXVILLE	KD4TZD	444.925	+		☺
KNOXVILLE/RACK	W4BBB	444.575	+	T100.0	☺
LAFAYETTE	KC4ECD	444.125	+	T107.2	☺
LAFOLLETTE	KB4OTK	443.700	+		
LAKE CITY	WD4LUR	442.800	+	T100.0	☺
LAVERGNE	WR3S	443.975	+	T	☺
LEBANON	WA4AWI	443.275	+	T107.2	☺
LEBANON	W4LYR	443.575	+	T100.0	☺
LEBANON	WA4AXH	444.275	+	T	
LEWISBURG	KF4TNP	442.100	+	PROP	
LEWISBURG	KF4TNP	444.075	+	PROP	
LORETTO	KF4OCK	442.875	+	203.5	
MARYVILLE	KF4BTL	442.000	+		
MARYVILLE	KC4PDQ	444.075	+	100.0	☺
MCEWEN	KE4KNZ	443.925	+	T	
MCKENZIE	KD4KPV	443.875	+		
MCMINNVILLE	WD4MWQ	444.850	+	T	
MCNAIRY	KF4SCT	444.550	+	T107.2	☺
MEDINA	WA4BJY	442.050	+		
MEMPHIS	W4GMM	442.175	+	T107.2	☺
MEMPHIS	WB4EPG	442.625	+		
MEMPHIS	WF4G	442.825	+		
MEMPHIS	W4ZJM	443.000	+	T*#	
MEMPHIS	KA4JXT	443.100	+	T107.2	☺
MEMPHIS	KA4JXT	443.125	+	T	☺
MEMPHIS	W4BS	443.200	+	T107.2	
MEMPHIS	WA4QWW	443.400	+		
MEMPHIS	N4ER	443.950	+	T	☺
MEMPHIS	K4RDK	444.025	+		
MEMPHIS	KF4ATY	444.075	+	107.2	☺
MEMPHIS	KA4JXT	444.100	+	T	☺
MEMPHIS	KA4JXT	444.125	+	T	☺
MEMPHIS	WA4KOG	444.400	+		
MEMPHIS	N4WAH	444.500	+	T	
MEMPHIS	K0JXI	444.800	+		
MEMPHIS	K5FE	444.825	+	107.2	
MEMPHIS	K7AG	444.850	+	T107.2	
MEMPHIS	WB4NNE	444.950	+		
MILAN	WD4PAX	442.100	+		☺
MONTEAGLE MT.	NQ4Y	441.250	+		☺
#MORRISTOWN	KD4LP	444.800	+	UNCOR	
MORRISTOWN	KQ4E	444.975	+	T	
MOUNTAIN CITY	KF4RBR	443.925	+	T103.5	☺
MT JULIET	N4PYI	444.400	+	T	☺
MT JULIET	N4PYI	444.750	+	T156.7	☺
MT PLEASANT	KF4TNP	443.175	+	PROP	
MURFREESBORO	KD4TZZ	441.875	+	PROP	
NASHVILLE	AF4TZ	421.250	+		☺
#NASHVILLE	WB4PUB	443.050	+	UNCOR	
NASHVILLE	KB5YJC	443.725	+	107.2	☺
NASHVILLE	N4PYI	444.050	+	T107.2	☺
NASHVILLE	AF4TZ	444.150	+	T107.2	☺
NASHVILLE	N4ARK	444.200	+	T	☺
NASHVILLE	N4ARK	444.225	+	T114.8	☺
NASHVILLE	WA4BZU	444.300	+	T107.2	
NASHVILLE	WA4BGK	444.525	+	T107.2	
NASHVILLE	WA4PCD	444.550	+		☺
NASHVILLE	WA4WCK	444.575	+	T	
NASHVILLE	WA4TOA	444.625	+	T107.2	☺
NASHVILLE	WA4PCD	444.675	+	T	☺
NASHVILLE	N4PYI	444.800	+	T110.9	☺
NASHVILLE	WA4AKM	444.875	+	T107.2	
NASHVILLE	WA4AKM	444.975	+	T107.2	
NOLENSVILLE	WA4AXH	443.650	+	T	
OAK RIDGE	K4EAJ	444.400	+	T82.5	☺
OAKFIELD	WA4BJY	442.200	+	T	
ONEIDA	KT4PN	442.825	+		
PARIS	AD4LR	443.675	+		
PIGEON FORGE	KD4CLA	444.350	+	T156.7	☺
PROSPECT	WA4AUX	444.600	+	T118.8	
PULASKI	WD4RBJ	442.150	+	PROP	
RAMER	WB4MMI	444.900	+	T	☺
RCKWOOD/OZONE	WJ9J	442.225	+		☺
ROCKWOOD	KA4WJS	443.975	+		
ROGERSVILLE	K4GX	443.350	+	T	
SEVIERVILLE	KD4IBW	443.675	+	T100.0	
SEVIERVILLE	N4CKB	444.725	+	T123.0	☺
SHELBYVILLE	WA4PZN	442.700	+	T	
SHELBYVILLE	KC4KRM	443.825	+		
SHRT MT/MURFREB	W4CAT	444.650	+	T107.2	
SIGNAL MT.	KE4LQY	444.150	+	PROP	☺
SMITHVILLE	N4PYI	444.825	+	T107.2	☺
SODDY DAISY	WJ9J	444.450	+		☺
SPARTA	KR4BT	444.375	+	123.0	☺
SPENCER	KA4MHJ	443.775	+	123.0	☺
SPRINGFIELD	N8ITF	442.600	+	107.2	
SUMMITVILLE	N4ZKR	444.475	+	T107.2	☺
WATERTOWN	W4LYR	444.900	+	T100.0	☺
WAVERLY	NO4Q	442.225	+	110.9	☺
WHITE HOUSE	W4KOC	443.900	+	T107.2	☺

920 MHZ

MORRISTOWN	KQ4E	920.800	-		
NASHVILLE	K4ZGA	923.250	-		

1270 MHZ

MEMPHIS	N4HKS	1292.000	-		
NASHVILLE	WA4AKM	1284.400	-		
NASHVILLE	KD4EEW	439.250	+		
SMITHVILLE	WA4AKM	1286.500	-		

VIRGINIA

10 METERS

FANCY GAP	KE4QOX	29.660	-	T123.0	☺
NEWPORT NEWS	W4CM	29.600	+		
STERLINGPARK	KD4DN	29.680	-		

6 METERS

ALEXANDRIA	W4HFH	53.130	-		
AMELIA	WB3R	53.390	-		
AMELIA COURTHSE	KB4YKV	53.110	-		
BALDTOPMT	AD4CG	53.910	-		
BEDFRD/THAX MT	N4CH	53.150	-		☺
BLUEFIELD	N8RIG	53.370	-	PROP	
BULLRUN	K8GP	53.450	-		
CHESTERFIELD	KD4SUU	53.430	-		
DANVILLE(DCC)	WB4GJG	53.130	-	T	
FANCY GAP	WA4CQK	53.290	-	T100.0	☺
GATE CITY	N4WWB	53.210	-		
GUM SPRING	KB4MIC	53.070	-	203.5	☺
HAMPTON	WA4OHX	53.890	-		
LEXNGTN/ROCK MT.	KI4ZR	53.010	-		☺
LYNCHBURG	KE4KEH	53.570	-	103.5	☺
MCCLEAN	K6LEW	53.370	-		
NEWPORT NEWS	KT4QW	53.250	-	T	☺
PEARISBURG	KE4JYN	53.470	-	T107.2	☺
RICE	KE4SFU	53.170	-		
ROANOKE	N4CH	53.250	-		☺
ROANOKE/POOR MT	WB8BON	53.090	-		☺
ROCKY MT/FERRUM	WD4KZK	53.270	-	T107.2	☺
VESTA	KG4KUA	53.430	-	PROP	☺
VESTA	N4GBO	53.430	-	PROP	☺
WHITE TOP MTN	KB4YFV	53.650	-		

2 METERS

ABINGDN/BRMLY MT	K4JP	146.610	-		
ABINGDON	NM4L	147.345	+	T103.5	☺
ACCOMAC	K4BW	147.255	+	T156.7	☺
ALEXANDRIA	K4US	146.655	-		
ALEXANDRIA	W4HFH	147.315	+		
ALTAVISTA	WA4ISI	146.655	-		☺
AMELIA	WB3R	145.190	-		
AMELIA COURTHSE	KB4YKV	147.180	+		
AMHERST	K4CQ	145.490	-	T136.5	☺
ARLINGTON	WB4MJF	145.150	-		
ARLINGTON	WB4MJF	145.470	-		
ARLINGTON	KF4JPC	146.625	-		
BEDFORD	N4CH	145.230	-		☺
BEDFORD	WB4JBJ	147.105	+		
BEDFRD/APL ORCH	WA1ZMS	146.685	-	T100.0	☺
BLACKSBURG	W9KIC	146.715	-		☺
BLAND	N4AZJ	145.350	-	T103.5	☺
BLUEFIELD	KD8XK	145.250	-	T100.0	☺
BLUEFIELD	W8MOP	145.490	-		☺
BLUEFIELD/ONEIDA	WZ8E	146.955	-	100.0	☺
BLUEMONT	WA4TSC	147.300	+		
BOYDTON	KD4ZTK	147.240	+		
CHARLOTTESVILLE	WA4TFZ	146.760	-	T88.5	☺
CHARLOTTESVILLE	N4RAG	146.895	-	T131.8	
CHARLOTTESVILLE	WA4TFZ	146.925	-		☺
CHESAPEAKE	WA4YSE	146.610	-		
CHESAPEAKE	N4SD	146.790	-		
CHESAPEAKE	W4CAR	146.820	-	T162.2	
CHESTERFIELD	KD4KWP	145.310	-	127.3	☺
CHESTERFIELD	KA4CBB	147.360	+		☺
#CLINCHCO	KK4MW	146.985	-	UNCOR	
CLINCHCO	KB4RFN	147.150	+	T88.5	
#CLINCHCO	WD4CYZ	147.255	+	UNCOR	
COEBURN	AD4OV	145.430	-	103.5	☺
COVINGTON	WA4HTI	146.805	-		☺
CULPEPER	W4CUL	147.120	+		
CULPEPPER	AF4CY	145.410	-		
DANVILE/WHT OAK	K4AU	146.700	-	107.2	☺
DANVILLE(DCC)	WB4GJG	146.925	-	T107.2	
DUBLIN	W4CBM	146.670	-		
DULLESAIRPOR	W4DLS	145.310	-		
EASTVILLE	N4WAO	147.345	+	T156.7	☺
ELK CRK/IRON MTN	N4MGQ	147.240	+	T107.2	☺
ENON	WB4VWR	147.060	+	T107.2	
FAIRFAX	K4KXK	146.790	-		
#FANCY GAP	WA4CQK	145.110	-	UNCOR	☺
FARMVILLE	KE4ZBH	145.330	-		☺
FARMVILLE	KE4ZBH	146.910	-		☺
FARMVILLE	N4CFA	146.955	-	T136.5	☺
FINCASTLE	W4WIC	146.640	-		☺
FOREST	AG4AN	146.775	-	PROP	
FRANKLIN	KD4ITB	147.300	+	T131.8	☺
FREDERICKSBUR	K4TS	147.015	+		
GALAX/BRIRP MT	W4BRC	147.090	+		☺
GALAX/LKOUT MT	N4VL	145.130	-	T103.5	☺
GARRISONVILLE	N4NW	145.270	-		
GATE CITY	N4WWB	146.820	-	T	
GLOUCESTER	W4HZL	145.370	-	T	☺
GOOCHLAND	N4TZE	147.090	+		☺
GREENBAY	K4ARO	145.150	-		
GRUNDY	K4HWQ	147.315	+		
GRUNDY/BIG A MT	KK4EH	146.835	-		☺
GUM SPRING	WB4IKL	147.270	+		☺
HAMPTON	WA4OHX	145.490	-		
HAMPTON	W4QR	146.730	-		☺
HAMPTON	K4UMI	146.940	-	T	
HAMPTON	KA4VXR	147.225	+	T136.5	
HARRISONBURG	N4YET	145.130	-		
HARRISONBURG	N4RAG	146.895	-		
HARRISONBURG	N4RAG	147.225	+		
HARRISONBURG	N4YET	147.315	+		
HIGHKNOBMTN	K4QZJ	145.210	-		
#HONAKER	KD4TC	146.805	+	UNCOR	
JARRATT I-95	K4SVA	146.625	-		☺
KINGSCROSSIN	N5GQD	147.150	+		
LEXINGTON	KI4ZR	147.300	+	131.8	☺
LEXNGTN/ROCK MT.	KI4ZR	147.330	+		☺
LURAY	KE4JSV	147.030	+		
LYNCHBURG	KC4RBA	145.370	-	186.2	☺
LYNCHBURG	W4WWQ	146.610	-	136.5	☺
LYNCHBURG	AB4M	147.015	-	T131.8	☺
LYNCHBURG	WA4RTS	147.195	+	T136.5	☺
MANASSAS	W4OVH	146.970	-		
MANASSAS	W4OVH	146.970	-		
MARION	N4QLF	146.640	-	T103.5	
MARTINSVILLE	KF4KVG	147.285	+	T107.2	☺
MCLEAN	W4CIA	147.210	+		
MECHANICSVILLE	W4ML	146.805	-	PROP	
MONTEREY	WD4ITN	147.180	+	T100.0	☺
MONTPELIER	KQ4RH	145.250	-	T	☺
MOUNTAIN LAKE	WZ8E	146.865	+	110.9	☺
MT.LAKE/BALD KNB	K4TUE	146.910	-	107.2	
NEWMARKET	W3MMC	146.625	-		
NEWPORT NEWS	W4MT	145.230	-	T100.0	☺
NEWPORT NEWS	W4CM	147.165	+		
NORFOLK	WA4ZUA	145.170	-	136.5	
NORFOLK	W4VB	145.330	-		☺
NORFOLK	KF8PT	146.700	-	PROP	
NORFOLK	AD4ZK	147.075	+		☺
NORTON	KF4VDF	146.865	-	T103.5	☺
NORTON/HIGH KNB	K4AXO	147.015	-	T88.5	
PAGECO	KD4DDI	146.670	-		
PATRICK SPRINGS	WB8POC	147.120	+	T107.2	☺
PEARISBURG	N4AZJ	147.135	+	T100.0	☺
PEARISBURG	W4NRV	147.375	+	T100.0	☺
PENNINGTON GAP	AF4FB	146.700	-	103.5	☺
PETERSBURG	KE4SCS	146.985	-	PROP	

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue!

VIRGINIA REPEATERS CONTINUE

PETERSBURG	K4ARO	147.390	+		
PKS KB/PULASKI	WB3S	147.180	+	T103.5	☺
PORTSMOUTH	W4POX	146.850	-		☺
QUANTICO	#W4NFR	147.345	+		
RADFORD/RINER	KA4IXK	145.150	-		☺
RICHMOND	K4YPE	145.110	-		☺
RICHMOND	W4SQT	145.430	-		☺
RICHMOND	WB4QEY	146.640	-		
RICHMOND	W4RAT	146.880	-		
RICHMOND	W4ZA	146.940	-		☺
RICHMOND	WA4JST	147.030	-		
RICHMOND	KC4VDZ	147.135	+	T107.2	
ROANOKE	N2EDE	145.210	-	107.2	☺
ROANOKE	N4AP	146.940	-		
ROANOKE/POOR MT	K4ARO	145.390	-	T107.2	
ROANOKE/POOR MT	K4ROA	146.745	-	T107.2	☺
ROANOKE/POOR MT	W4CA	146.985	-		
ROANOKE/POOR MT	KB4QWO	147.270	+		☺
RUSTBURG	N4UTN	145.290	-	T	☺
RUSTBURG/LONG MT	N4UTN	146.835	-	T173.8	☺
SALEM	WA4V	146.880	-		
SALUDA	AA4HQ	145.450	-		☺
SMITHFIELD	WT4RA	147.195	+	T100.0	☺
SOUTH BOSTON	KF4LWH	145.350	-		☺
SOUTH BOSTON	KF4AGO	147.060	-		☺
SOUTH HILL	N4ZCM	145.470	-		
SPOTSYLVANIA	K4MQF	146.775	-		
STAUNTON	KD4KAU	145.450	-	T131.8	
STAUNTON	KD4WWF	146.700	-	T131.8	
STAUNTON	WA4ZBP	146.850	-	T131.8	
STAUNTON	W4WRN	146.970	-		
STAUNTON/EL.KB	KE4CKJ	147.045	+	T131.8	
STERLING	WA4TXE	146.700	-		
STUARTS DRAFT	KB4OLM	147.360	+		☺
SUFFOLK	W4LG	147.000	-	T100.0	☺
TYSONSCORNER	KF4QQP	146.910	-		
VIENNA	K4HTA	146.685	-		
VIRGINIA BEACH	WA4KXV	146.895	-		☺
VIRGINIA BEACH	WA4KXV	146.970	-		☺
VIRGINIA BEACH	WA4SBC	147.045	+		
VIRGINIA BEACH	W4NV	147.375	+		
WALKERTON	KA4DZU	146.715	-		
WARRENTON	KB3BOI	145.350	-		
WARRENTON	NZ4N	147.165	+		
WARSAW	KA4ZIP	147.285	+		☺
WAYNESBORO	W4PNT	147.075	+		☺
WILLIAMSBURG	KF4ADM	145.410	-	127.3	
WILLIAMSBURG	K4RC	146.670	-	T	
WILLIAMSBURG	KB4ZIN	146.760	-		☺
WILLIAMSBURG	KB4ZIN	147.105	+		☺
WINCHESTER	KB3BOI	145.350	-		
WINCHESTER	W4RKC	146.820	-		
WOODBRIDGE	W4IY	147.240	+		
WYTHE/WALKR TOP	WB3T	146.895	-	T103.5	☺
WYTHEVILLE	WB3T	146.775	-	T107.2	

220 MHZ

ARLINGTON	WB4MJF	224.060	-		
ARLINGTON	WB4MWF	224.620	-		
BEDFORD	N4PLV	224.840	-		
BEDFRD/APL ORCH	WA1ZMS	224.180	-	T100.0	☺
BELLKNOB	WD4KHP	224.440	-		
BERRYVILLE	WD4KHP	224.400	-		
BERRYVILLE	WD4KHP	224.740	-		
BLUEFIELD	WA8O	224.920	-		☺
BLUEMTN	KF4VED	224.160	-		
BUCK'S ELBOW	N4RAG	224.320	-	T131.8	
CHARLOTTESVILLE	N4HRV	224.140	-	T88.5	☺
CHARLOTTESVILLE	WA4TFZ	224.760	-		☺
DELTAVILLE	AA4HQ	224.900	-		☺
FAIRFAX	WB4YHD	224.100	-		
FANCY GAP	K4DQ	224.880	-	T100.0	
GLOUCESTER	W4GSF	224.620	-		☺
HAMPDEN-SYDNEY	W4JAS	224.200	-		
HAMPTON	WB4PVT	224.540	-	T100.0	☺
HARRISONBURG	N4YET	224.820	-		
HAYMARKET	WD4KHP	224.420	-		
HAYMARKET	WD4KHP	224.720	-		
LAKE GASTON	W4LG	224.600	-		☺
LEESBURG	N0NW	224.020	-		
LOVETTSVILLE	WB4FUJ	224.460	-		
LURAY	KE4JSV	224.360	-		
LYNCHBURG	AB4M	224.280	-		☺
MANASSAS	W4OVH	224.660	-		
MARTINSVILLE	K4RCA	224.500	-		
NORFOLK	KC4JGC	224.740	-	T100.0	
NORTON/HIGH KNB	WD4GSM	224.420	-		
PATRICK SPRINGS	WB8POC	224.420	-	T103.5	☺
PEARISBURG	KQ4Q	224.860	-	103.5	
PETERSBURG	K4ARO	224.700	-		
RIDGEWAY	WS4W	224.380	-	T	
ROA/CAHAS MT	AB4EM	224.940	-		☺
ROANOKE	N4CH	224.100	-		☺
ROANOKE/TINKER	K4YDG	224.900	-		☺
STAUNTON/EL KNOB	KE4CKJ	224.300	-	T131.8	
STUART	WB4GUG	224.200	-	T107.2	☺
TYSON'SCORNE	KM4OI	224.340	-		
TYSONSCORNER	WD4KHP	224.420	-		
WAYNESBORO	KA4RCL	224.680	-	T131.8	
WINCHESTER	N3HXT	224.220	-		
WOODBRIDGE	W4IY	224.780	-		

440 MHZ

ABINGDON	KB8KSP	442.975	+	T100.0	☺
ACCOMACK	K4BW	444.300	+	T156.7	☺
ALTAVISTA	WA4ISI	444.425	+		☺
AMELIA	KB4YKV	443.200	+		
ARLINGTON	KD4DSX	448.625	-		
ARLINGTON	W8HNT	449.325	-		
ARLINGTON	WB4MJF	444.150	+		
ARLINGTON	K4AF	444.550	+		
BASSETT	KF4RMT	443.825	+	T107.2	☺
BEDFORD	N4CH	444.350	+		☺
BEDFRD/APL ORCH	WA1ZMS	442.650	+	T100.0	☺
BEDFRD/APL ORCH	WA1ZMS	443.800	+	T100.0	☺
BELLKNOB	WD4KHP	449.825	-		
BERRYVILLE	WB2KPH	447.475	-		
BIG A MTN	KB4WTP	444.875	+		☺
BLUEFIELD	W8MOP	444.450	+		☺
BLUEFIELD	WZ8E	444.625	+		☺
BLUEFIELD/ONEIDA	WB3T	443.325	+	T103.5	☺
BLUEMONT	WA4TSC	449.925	-		
BULLRUNMTN	WA3KOK	447.775	-		
CHARLOTTESVILLE	KF4UCI	442.075	+	T151.4	☺
CHARLOTTESVILLE	WA4TFZ	444.250	+	T151.4	☺
#CHARLOTTEVILLE	KF4UCI	444.775	+	UNCOR	☺
CHESAPEAKE	N4EVG	443.900	+		
CHESAPEAKE	W4CAR	444.000	+	PROP	
CHESTERFIELD	WA3KOK	433.075	+	PROP	
CHESTERFIELD	KD4SUU	442.150	+		
CHESTERFIELD	WA3KOK	442.450	+	PROP	
COPPER RIDGE	KB4WTP	444.550	+	PROP	☺
COVINGTON	WA4HTI	442.250	+		☺
DALECITY	N8BOR	443.100	+		
DANVILE/WHT OAK	K4AU	444.700	+		☺
DANVILLE	KQ4I	443.850	+		☺
ENON	WB4VWR	444.200	+		
ENON	W4RDF	444.275	+	T114.8	☺
FAIRFAX	K4HTA	448.375	-		
FAIRFAX	WD4KHP	449.775	-		
FALLSCHURCH	WB4UNB	447.425	-		
FALLSCHURCH	KF4LWJ	444.300	+		
FANCY GAP	WD4ICX	433.200	+		
FANCY GAP	WB3T	444.050	+	T103.5	☺
FANCY GAP	WD4ICX	444.175	+	T107.2	☺
FANCY GAP	N4OWU	444.375	+	T107.2	☺
FANCY GAP	N4XRY	444.900	+		
FANCY GAP	KD4FWS	444.925	+	PROP	
FOREST	AG4AN	442.475	+	PROP	
FOREST	W8CXD	443.600	+	T136.5	☺
FOREST	WD4KQI	444.750	+		☺
FRONTROYAL	N4MKH	449.225	-		
GASBURG	W4LG	442.000	+		☺
GATE CITY	N4WWB	444.700	+		
GLOUCESTER	N4XND	421.250	+		
GRETNA/SMITH MT	KD4TBC	444.075	+	T123.0	
GUM SPRING	KB4MIC	442.800	+		☺
HAMPTON	K4UMI	443.650	+		
HAMPTON	WA4OHX	443.750	+	100.0	
HAMPTON	W4QR	444.550	+	T167.9	☺
HARRISONBURG	N4YET	444.600	+		
HAYMARKET	KT4ER	448.325	-		
HAYMARKET	N3AUY	449.025	-		
HERNDON	N4LXI	443.000	+		
HIGHKNOB	N1TXI	447.725	-		
HILLSVILLE	KB4YFV	442.125	+	T103.5	
INDEPENDENCE	KF4ZIG	443.375	+	T103.5	☺
JONESVILLE	WB4IVB	442.575	+	T100.0	
LEXINGTON	KI4ZR	444.300	+		☺
LEXNGTN/ROCK MT	KI4ZR	444.150	+		☺
LORTON	WD4KHP	449.725	-		
LYNCHBG/JACK MT	KF4YI	442.400	+	T107.2	
LYNCHBRG/TOB MT	K4CQ	444.500	+	T136.5	☺
LYNCHBURG	KB4CVN	420.050	+	PROP	
LYNCHBURG	K4CQ	923.250	-		☺
LYNCHBURG	AB4FU	442.950	+	T	☺
LYNCHBURG	KC4RBA	443.450	+	186.2	☺
LYNCHBURG	W4WWQ	444.550	+	T136.5	☺
LYNCHBURG/T.ROW	N4IFC	442.200	+	T103.5	
MADISON	N8HON	444.400	+		
MANASSAS	W4QVH	442.200	+		
MARION	WB3T	443.125	+	T103.5	☺
MEADOWS OF DAN	WG4R	444.250	+	PROP	☺
NEWPORT NEWS	W4MT	442.900	+	T100.0	☺
NORFOLK	AD4ZK	444.475	+	T	☺
NORFOLK	WD4MIZ	444.675	+	T107.2	
OILVILLE	KB4MIC	444.800	+		☺
PATRICK SPRINGS	WB8POC	443.175	+		☺
PATRICK SPRINGS	KC3FB	443.750	+	PROP	☺
PEARISBURG	N4AZJ	444.975	+	T103.5	☺
PETERSBURG	K4ARO	442.600	+		
PETERSBURG	WB4KZI	443.825	+		
PORTSMOUTH	W4POX	443.800	+		☺
POWHATAN	KN4YM	443.100	+		☺
PULASKI	KE4CIF	442.775	+	T	☺
QUANTICO	N3QEM	447.975	-		
RICHMND/CHLTVL	N4EHJ	444.650	+		☺
RICHMOND	WA4AYB	441.600	+	PROP	
RICHMOND	WA4AYB	441.600	+	PROP	
RICHMOND	KC4VDZ	442.300	+	T114.8	
RICHMOND	W4RAT	442.550	+	T127.3	
RICHMOND	AB4SF	444.850	+	T	☺
ROA/POOR MT	N4FHL	439.250	-		
ROA/POOR MT	KA4IXK	442.850	+		☺
ROANOKE	K4ARO	442.600	+	T	
ROANOKE	W7CP	442.700	+	T	☺
ROANOKE	WB3T	444.325	+	T103.5	☺
ROANOKE/MILL MT	WD4KZK	442.750	+	T107.2	☺
ROANOKE/POOR MT	W4CA	442.500	+		
ROANOKE/READ MT	WD4KZK	444.850	+	T107.2	☺
ROANOKE/TINKER M	WB8BON	444.925	+		☺
SILER	WA4RS	449.175	-		
SLINGS GAP	WD4KZK	444.775	+	T107.2	☺
SOUTH BOSTON	KF4AGO	443.925	+		☺
SOUTH BOSTON	KF4LWH	444.625	+		☺
SOUTH HILL	KD4MJO	443.525	+	100.0	☺
SPOTSYLVANIA	N2XHZ	447.875	-		
SPOTSYLVANIA	KD4QNA	442.700	+		
SPOTSYLVANIA	K4MQF	442.850	+		
STAFFORD	K4HR	444.450	+		
STAUNTON	WA4ZBP	444.825	+	T131.8	
STAUNTON/EL KNOB	KE4CKJ	444.100	+	T131.8	
STERLING	WA4TXE	442.100	+		
STUART	WB4GUG	442.225	+	T107.2	☺
STUARTS DRAFT	KB4OLM	444.050	+		☺
TYSONSCORNER	KA3RQR	447.025	-		
TYSONSCORNER	KM4FI	443.500	+		
VIENNA	N4KOU	444.850	+		
VINTON	K4YD	443.675	+	T107.2	
VIRGINIA BEACH	WA4KXV	444.950	+		☺
WAYNESBORO	N3XA	426.250	+		
WHITETOP MTN	KM4X	443.000	+	T103.5	☺
WILLIAMSBURG	KB4ZIN	444.100	+		☺
WILLIS	W4DUM	443.875	+		
WINCHESTER	W4RKC	448.775	-	146.2	☺
WINCHESTER	W4RKC	448.775	-		
WINCHESTER	W3CSG	442.000	+		
WOODBRIDGE	W4IY	444.900	+		
WYTHE/WALKER MT	WB3T	442.000	+	T103.5	☺
WYTHEVILLE	WB3T	442.525	+	103.5	☺
YORKTOWN	N3ELM	443.550	+	T100.0	☺

920 MHZ

ALEXANDRIA	WA4CCF	919.600	-		
BEDFRD/APL ORCH	WA1ZMS	921.100	-	T100.0	☺
CULPEPER	KA4DCS	919.400	-		
LYNCHBRG/TOB MT	K4CQ	921.000	-	T100.0	☺
ROANOKE/POOR MT	WD4KZK	919.500	-	107.2	☺
TYSONSCORNER	K6LEW	919.500	-		
WOODBRIDGE	KA4DCS	919.800	-		

1270 MHZ

BEDFRD/APL ORCH	WA1ZMS	1283.100	-	T100.0	☺
ROANOKE/POOR MT	N4CH	1291.020	-		☺

2.4GHz

BEDFRD/APL ORCH	WA1ZMS	2411.600	+		☺

WEST VIRGINIA

10 METERS

BECKLEY	KA8OTX	29.620	-		
BECKLEY	KE4QOX	29.680	-	T88.5	☺
CHARLESTON	WB8CQV	29.640	-	203.5	
RICHWOOD	WA8YWO	29.660	-	T100.0	

6 METERS

ALDERSON	WV8BD	53.190	-		
BECKLEY	N8FWL	53.170	-	T123.0	
BECKLEY	WB8YST	53.590	-	T107.2	☺
CHARLESTON	WB8YST	53.630	-	T107.2	☺
FLATWOODS	N8CQQ	53.110	-	PROP	
GASSAWAY	K8WGB	53.210	-	T123.0	
LEWISBURG	KC8LRN	53.930	-	PROP	☺
MARMT/CHARLSTN	N8PEI	53.750	-	T141.3	
RICHWOOD	WB8YST	53.710	-	T107.2	☺
SHIRLEY	KB8TJH	53.310	-		
SNOWSHOE	KC8CSE	53.330	-		☺

2 METERS

AMBER RIDGE	KB8NJH	147.210	+	T107.2	☺
BECKLEY	N8FWL	147.360	+	T123.0	
BECKLEY/BOLT MT	WV8B	145.170	-	T100.0	
BECKLEY/EOC	WV8BD	145.370	-		
BECKLEY/FLAT TOP	WV8BD	146.850	-		
BECKLEY/LAYLAND	N8FCJ	145.310	-	T100.0	
BECKLY/OAK HILL	N8FWL	145.230	-	T100.0	
BERKELEYSPRIN	KK3L	146.745	-		
BIRCH RIVER	N8FMD	145.270	-	T103.5	☺
BRIDGEPORT	WB8DKM	147.120	+	T	☺
BUCKHANNON	N8FHE	145.410	-		
BUCKHANNON	N8ZAR	146.850	-		
BUCKHANNON	N8ZAR	147.060	+	123.0	
CAPONMOUNTAIN	N8YIB	147.435	-		
CHARLESTON	W8GK	145.350	-	91.5	☺
CHARLESTON	WB8YST	145.430	-	PROP	
CHARLESTON	WB8IFS	146.820	-		
CHARLESTOWN	N8EIV	146.985	-		
CLARKSBURG	N8FMD	146.685	-	T103.5	☺
CLARKSBURG	N8FMD	147.210	+	T103.5	☺
DANVILLE	WB8NAM	146.685	-	T	

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . conclude!

W.VIRGINIA REPEATERS CONTINUE

DAVIS	KE8MR	147.135	+	T103.5	☺
ELKINS	WJ8G	145.230	-	T103.5	
ELKINS	KB8BWZ	146.775	-		
FAIRMONT	W8SP	145.350	-	T103.5	
FENWICK	KD8AB	146.940	-		
FLAT TOP/WINTRPL	WV8B	146.625	-	T100.0	
FLATWOODS	N8ZPX	146.655	-	T123.0	
FRANKLIN	W3RUA	147.345	+		☺
FROST	N8RV	145.110	-	107.2	☺
GASSAWAY	WB8MZI	146.610	-		☺
#GASSAWAY	K8WGB	147.240	+	UNCOR	
GLENVILLE	N8OYY	145.130	-		
GLENVILLE	WB8WV	145.290	-		
GRAFTON	WD8LNB	147.375	+	118.8	☺
GRANTSVILLE	N8LGY	145.450	-	T103.5	
HARISVL/PENSBRO	WB8NSL	147.300	+		
HARPER'SFERRY	KB3BOI	145.350	-		
HINTON	KC8CNL	147.255	+	100.0	☺
HUNTINGTON	WB8FEQ	145.210	-		
HUNTINGTON	W8VA	146.760	-		
HUNTINGTON/CHAS	WB8EZR	146.640	-		☺
IAEGER	N8SNW	146.655	-	T203.5	
KEYSER	N8RCG	147.390	+	123.0	☺
#LENORE	KF8HL	145.390	-	UNCOR	
LEON	WD8OHX	147.180	+		
LEWISBURG	WB8SPW	146.730	-	T100.0	
LEWISBURG	N4RAG	146.760	-	T131.8	
LEWISBURG	WV8D	147.390	+	T100.0	
LOGAN SOUTH	NV8H	147.195	+	100.0	
LOGAN/SUMERCO	NU8K	147.345	+		
LOGAN/WRD RK MT	KJ8E	146.970	-		
MADISON	WB8NAM	147.120	+	T	
MARLINTON	N4RAG	147.090	+	131.8	
MARTINSBURG	WA8FSE	145.150	-		
MARTINSBURG	WB8YZV	147.255	+		
MARTINSBURG	K3MAD	147.345	+		
MCMECHEN	N8BQ	146.910	-		☺
MIDDLEBOURNE	WV8TC	147.360	+	T110.9	☺
MOOREFIELD	KD4SZR	145.190	-		
MORGANTOWN	K8LG	145.430	-		
MORGANTOWN	W8CUL	146.760	-		
MORGANTOWN	KE8MR	147.075	+	T103.5	☺
MULLENS	KC8IT	147.030	+		
NEW MARTINSVILE	KF8LL	146.985	-		
OAK HILL	NM8T	146.790	-		
PARKERSBURG	WV8G	145.490	-		
PARKERSBURG	WA8LLM	147.255	+		☺
PARKERSBURG	WD8CYV	147.390	+	T141.3	
PARKERSBURG (OH)	N8NBL	146.970	-		
PARSONS	K8VNQ	145.370	-	T118.8	☺
PHILIPPI	K8VE	145.150	-	103.5	☺
PINEVILLE	W8LG	147.285	+		
PRINCETON	KA8PNC	147.060	-		☺
PRINCETON	WB8NRK	147.225	+	T114.8	☺
PRINCETON/PIPEST	WD8OGY	146.925	-		
RAVENSWOOD	WD8JNU	146.670	-		
RED HOUSE	WV8AR	145.410	-	T123.0	☺
RICHWOOD	WB8YJJ	145.190	-	T	
RICHWOOD	AA8TH	147.015	+	T	
RICHWOOD	KB8YDG	147.150	+	T100.0	☺
ROCKPORT	KC8TLG	147.135	+	T123.0	
SALT ROCK	K8SA	145.110	-	T110.9	
SCOTT DEPOT	WV8AR	147.270	+	123.0	☺
SHIRLEY	KB8TJH	145.310	-	T	
SKYLINE	K7SOB	147.360	+	T127.3	
SMITHERS	NM8T	147.075	-		
SO. CHARLESTON	WB8CQV	146.880	-	203.5	
SPENCER	KA8AUW	147.105	+	100.0	☺
SPRUCE KNOB	N8HON	147.285	+		
ST ALBANS	K8WMX	147.000	-		☺
ST.MARYS/BENS RG.	WB8ECC	147.030	+		
SUMMERSVILLE	W8FG	145.470	-	100.0	
TERRA ALTA	KD8ZR	147.000	+	T	☺
UNION	W8IFL	145.410	-		
WEIRTON	W8CWO	146.940	-		
WELCH	WB8SXZ	145.450	-		
WESTON	WD8EOM	145.390	-		☺
WESTON	WC8K	147.165	+		
WHEELING	KA8YEZ	145.190	-		☺
WHEELING	W8ZQ	146.760	-		☺
WILLIAMSON	WR8M	145.330	-		☺

220 MHZ

BECKLEY	N8FWL	224.240	-	T123.0	
BECKLEY/OAK HILL	N8FWL	224.340	-	123.0	
BERKELEYSPRIN	KA3VLG	224.700	-		
CHARLESTON	WB8YST	224.360	-	107.2	☺
FLAT TOP/WINTRPL	WV8B	224.120	-		
HILLSBORO	KC8LRN	224.220	-	T131.8	☺
#LEON	WD8OHX	223.780	-	UNCOR	
LEWISBURG	KC8LRN	224.800	-	T	☺
WILLIAMSON	WR8M	224.140	-		☺

440 MHZ

ALDERSON/SAM BLK	N8LVE	444.400	+	T100.0	
BECKLEY	N8FWL	443.050	+	T123.0	
BECKLEY	N8LVE	444.125	+	T	
BECKLEY/BOLT	W8LG	443.225	+		
BECKLEY/OAK HILL	WV8B	444.800	+		
BECKLY/OAK HILL	KE4QOX	443.100	+	T107.2	☺
BELINGTON	N8SCS	444.900	+	141.3	☺
BERKELEYSPRIN	WA3KOK	442.450	+		
BLUEFIELD	WZ8E	443.625	+	100.0	☺
BUCKHANNON	N8ZAR	444.250	+		
CHARLESTON	KB8QKM	442.925	+	71.9	
CHARLESTON	WV8AR	444.225	+	T123.0	☺
CHARLESTON	WB8YST	444.350	+	T107.2	☺
CLARKSBURG	N8FMD	444.175	+	T103.5	☺
DANSMOUNTAIN	N8YIB	145.330	+		
DUNMORE	KC8CSE	444.275	+	123.0	☺
FAIRMONT	W8SP	443.875	+		
FLATWOODS	N8ZVK	444.200	+		
GASSAWAY	K8WGB	444.675	+	T123.0	
GILBERT	KB8PCW	442.725	+	PROP	
GLENVILLE	KA8ZXP	444.325	+		
HERNSHAW	WB8CQV	444.700	+	PROP	
HUNTINGTON	WA4GSS	421.250	+		
HUNTINGTON	WB8EZR	443.000	+		☺
HUNTINGTON	KB8TGK	443.850	+	T88.5	
HUNTINGTON/CHAS	WB8ZER	444.850	+	T131.8	☺
HURRICANE	K8OJC	444.075	+		
KEYSER	N8RCG	444.125	+	103.5	☺
LEWISBURG	KF8FO	444.725	+	T103.5	
LOGAN	KE4QOX	444.900	+	T107.2	☺
MORGANTOWN	K8LG	444.700	+		
MORGANTOWN	W8CUL	444.800	+		
MULLENS	KC8IT	444.000	+		
OAK HILL	KA8OTX	443.800	+		
PARKERSBURG (OH)	N8ILO	444.100	+		
PENNSBORO	WB8NSL	442.850	+	T103.5	
PRINCETON	KB8UJG	443.700	+	T123.0	
RICHWOOD	KB8YDD	443.475	+		
RICHWOOD	KC8AUY	443.575	+	T	☺
SHIRLEY	KB8TJH	444.425	+	T	
SO. CHARLESTON	WB8CQV	444.950	+	203.5	
ST. ALBANS	K8MHR	443.150	+		☺
WELCH	N8SNY	443.725	+		☺
WESTON	N8FIP	443.975	+		
WESTON	WC8K	444.600	+		
WHEELING	KB8QHO	421.250	+		
WHEELING	KA8YEZ	443.025	+	77.0HZ	☺
WHEELING	N8EKT	444.975	+		

Limited FULL MEMBERS FROM NON-SERA STATES

10 METERS

CHESTER, PA	W3PS	29.520	+	T156.7	☺

6 METERS

CONCORD, NH	KA1OKQ	53.590	-	71.9	☺

2 METERS

CONCORD, NH	KA1OKQ	147.225	+	T100.0	☺
DELAND, FL	K4DWF	147.045	+	T103.5	☺
OCEAN CITY, NJ	W3PS	147.285	+	T146.2	☺
PHILADELPHIA, PA	W3PS	147.315	+	TT156.7	☺
VINELAND, NJ	AA2LD	147.135	+	T156.7	☺
WINCHESTER, VA	W4RKC	146.820	-		☺

220 MHZ

OCEAN CITY, NJ	W3PS	223.980	-	T156.7	☺
CHESTER, PA	W3PS	224.960	-	T156.7	☺
CONCORD, NH	KA1OKQ	224.800	-	T103.5	☺
EAGLEVILLE, PA	W3PS	224.680	-	T156.7	☺
MILLVILLE, NJ	AA2LD	223.960	-	T156.7	☺
QUAKERTOWN, PA	W3PS	224.400	-		☺

440 MHZ

CHESTER, PA	W3PS	443.050	+	T156.7	☺
CONCORD, NH	KA1OKQ	448.775	-	T82.5	☺
LINWOOD, PA	W3PS	443.000	+	156.7	☺
MCKINNEY, TX	KF5TU	442.350	+	T100.0	☺
PEMBROKE, NH	KA1OKQ	444.150	+		☺
PETERBORO, NH	KA1OKQ	443.350	+	T110.9	☺

1270 MHZ

CHESTER, PA	W3PS	1240.000	+		☺

SERA REPEATER INDEX LISTINGS BY FREQUENCY

PLEASE NOTE: CTCSS Tone Frequencies are listed for repeaters only if the repeater sponsors agree they be listed. Tone access listing does not indicate a closed repeater.

2 METERS

144.5100 / 145.1100			
KK4HL	AUGUSTA		GA
N4MXC	COCHRAN	107.2	GA
KR4HV	DOUGLASVILLE	88.5	GA
KC4UPE	LEESBURG	192.8	KY
K5HYE	MENDENHALL	100.0	MS
W5WA	PASCAGOULA	123.0	MS
W4PCN	KILL DEVIL HILLS	131.8	NC
N4GSM	ROBBINSVILLE	151.4	NC
KD4MYE	YOUNGSVILLE	88.5	NC
WZ4SC	FORT MILL		SC
W4GS	MYR BCH/CONWAY		SC
NQ4Y	COOKEVILLE		TN
WM4T	GRAY		TN
N4ARK	NASHVL/FAIRVIEW	151.4	TN
KF4SCT	SOMERVILLE	107.2	TN
WA4COK	#FANCY GAP	100.0	VA
K4YPE	RICHMOND		VA
N8RV	FROST	107.2	WV
K8SA	SALT ROCK	110.9	WV
144.5300 / 145.1300			
K4SEX	NEWNAN		GA
WR4SG	VALDOSTA	141.3	GA
N4UL	LOUISVILLE AREA	151.4	KY
KJ4VF	MOREHEAD	100.0	KY
WB4YNF	AHOSKIE		NC
W4RNC	RALEIGH	88.5	NC
W4JAK	GREENWOOD	123.0	SC
K4JR	SUMTER		SC
K4CMY	CHATTANOOGA		TN
N4SSB	GALLATIN	107.2	TN
KA4OAK	LAFOLLETTE		TN
KF4SCT	MEMPHIS	107.2	TN
KC4WPS	NASHVILLE	114.8	TN
N4VL	GALAX/LKOUT MT	103.5	VA
N8QYY	GLENVILLE		WV
144.55 0 / 145.1500			
K8VE	PHILIPPI	103.5	WV
144.5500 / 145.1500			
W4AQL	ATLANTA	167.9	GA
K4YC	IVEY/MACON	77.0	GA
KY4JW	MONTICELLO		KY
AD4BI	PIKEVILLE	107.2	KY
K5LFP	#PICAYUNE		MS
K2IMO	ELM CITY	88.5	NC
W4GSO	GREENSBORO		NC
K4QBX	HATTERAS ISLAND	131.8	NC
W4NHV	#LUMBERTON		NC
K8HID	INMAN		SC
N4LWY	SUMMERTON		SC
KG4FZR	ATHENS	141.3	TN
W4XS	FRANKLIN		TN
K0JXI	MEMPHIS		TN
K4ARO	GREENBAY		VA
KA4IXK	RADFORD/RINER		VA
144.5700 / 145.1700			
WA4DIW	JONESBORO		GA
W8PRH	HALLS GAP		KY
N5DWU	PETAL	136.5	MS
K4CCR	ANDSN MT/DENVER	88.5	NC
N4CTJ	LELAND		NC
N4NCK	OXFORD		NC
KY4S	AIKEN		SC
K4NOC	BISHOPVILLE	123.0	SC
KF4SCT	BRUCETON	107.2	TN
WB4GBI	KNOXVILLE		TN
WB4LHO	MURFREESBORO		TN
WA4ZUA	NORFOLK	136.5	VA
WV8B	BECKLEY/BOLT MT	100.0	WV
144.5900 / 145.1900			
WA4EQL	JESUP		GA
WB0QGH	LAWRENCEVILLE		GA
WB4ULJ	PINE MT/HAMILTON		GA
KB4SQI	SALYERSVILLE	127.3	KY
K5YD	BOONEVILLE	110.9	MS
W5CJR	HATTIESBURG	136.5	MS
KA4SQN	JACKSONVILLE		NC
WA4BVW	MT MITCHELL		NC
K4GWH	RALEIGH	156.7	NC
N0YVN	COLUMBIA		SC
N4OTT	CARTHAGE		TN
KD4XV	JASPER	127.3	TN
WB3R	AMELIA		VA
WB8YJJ	RICHWOOD		WV
KA8YEZ	WHEELING		WV
144.6100 / 145.2100			
KC4RRO	EASTMAN		GA
WA4EPK	FAYETTEVILLE	131.8	GA
W8PRH	LEXINGTN/GRGTWN		KY
KB5IKR	MENDENHALL	100.0	MS
K4OLC	HIGH PEAK MTN	94.8	NC
WB4TQD	TRENTON		NC
NS4SC	LEXINGTON		SC
W2GLJ	GERMANTOWN		TN
W4BBB	KNOXVILLE/RACK	100.0	TN
N4ARK	NASHVILLE		TN
K4QZJ	HIGHKNOBMTN		VA
N2EDE	ROANOKE	107.2	VA
WB8FEQ	HUNTINGTON		WV
144.6300 / 145.2300			
WB4JEH	CONYERS	151.4	GA
WR4SG	CORDELE	141.3	GA
W4DRC	DALTON		GA
K4BR	WAYNESBORO		GA
W8PRH	LOUISVILLE		KY
WS4GQC	WEST LIBERTY	100.0	KY
KC5QYG	MCLAIN		MS
KC5VZI	#NEW ALBANY		MS
N4VBH	BEULAVILLE		NC
W4UNC	CHAPEL HILL	107.2	NC
W4BFB	CHARLOTTE		NC
KG4AQH	GREELEYVILLE		SC
W4CAT	LAVERNE		TN
KB4KIE	MAYNARDVILLE		TN
KE4NTL	RIPLEY	100.0	TN
N4CH	BEDFORD		VA
W4MT	NEWPORT NEWS	100.0	VA
N8FWL	BECKLY/OAK HILL	100.0	WV
WJ8G	ELKINS	103.5	WV
144.6500 / 145.2500			
N4YYD	CHATSWORTH	71.9	GA
K4YC	IVEY		GA
AD4YJ	LEXINGTON	110.9	KY
W4GG	GREENSBORO	88.5	NC
WA4USN	CHARLESTON	123.0	SC
K4USC	UNION		SC
KT4WS	CARLISLE		TN
N4WXS	ERWIN/PINNACLE		TN
KD8XK	BLUEFIELD	100.0	VA
KQ4RH	MONTPELIER		VA
144.6700 / 145.2700			
KT4X	SANDERSVILLE	77.0	GA
K4PLM	WALESKA/PNLG MT	103.5	GA
N4KJU	PAINTSVILLE		KY
KD4BOH	ROCKPORT	77.0	KY
N5NBG	WALLS	162.2	MS
KB5DZJ	WIGGINS	136.5	MS
K4ROK	FARMVILLE	131.8	NC
WA4KNI	HENDSVL/BERWLW		NC
KM4AR	MIDWAY	77.0	NC
KC4GYM	COLUMBIA	127.3	SC
WB4WZK	HENDERSONVILLE		TN
KD4CLA	PIGEON FORGE	100.0	TN
N8FMD	BIRCH RIVER	103.5	WV
144.6900 / 145.2900			
W4IBM	ATLANTA		GA
W4DV	AUGUSTA	100.0	GA

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

WR4MG PERRY .....107.2 GA
AC2DC LOUISVILLE .....151.4 KY
N4VOS STANTON ..... KY
WJ5L VICKSBURG ..... MS
W4BFB CHARLOTTE ..... NC
WN3X COINJOCK .....131.8 NC
NC4AR HIGH POINT .....88.5 NC
KF4NOV ROCKY MOUNT .....107.2 NC
W4GS MYRTLE BEACH .....85.4 SC
KU4ZS PUMPKINTOWN .....123.0 SC
W4AM CHATTANOOGA .....118.8 TN
KF4ZQA ELIZTON/HOLS MT ..... TN
K4DXC RIDGETOP .....114.8 TN
KF4SCT SHILOH .....107.2 TN
N4UTN RUSTBURG ..... VA
WB8WV GLENVILLE ..... WV

144.7100 / 145.3100

KA4CEK COLUMBUS ..... GA
KB4JF NASHVILLE .....141.3 GA
WA4JDR STOCKBRIDGE ..... GA
KC4KZT DAVID ..... KY
WB5GQJ CHATAWA ..... MS
KC4WPM BAKERSVILLE ..... NC
N4LEX LEXINGTON .....88.5 NC
WA4WFU #ROANOKE RAPIDS .....131.8 NC
K4ITL ROSEBORO ..... NC
W4IAR BEAUFORT ..... SC
W4CHR CHESTER ..... SC
WA4PNI ATHENS .....141.3 TN
KF4SC JACKSON ..... TN
KC4ECD LAFAYETTE .....151.4 TN
KD4KWP CHESTERFIELD .....127.3 VA
W8FCJ BECKLEY/LAYLAND .....100.0 WV
KB8TJH SHIRLEY ..... WV

144.7300 / 145.3300

KF4ODQ EASTMAN .....77.0 GA
WA4OGE JONESBORO ..... GA
N4XGI ST SIMONS ISLAND .....131.8 GA
KF4INN VERSAILLES ..... KY
KS0MC KILN ..... MS
KI4RK GOLDSBORO .....100.0 NC
N4VRD MOUNT AIRY .....100.0 NC
KF4JVI TRYON ..... NC
WA4DFP BAMBERG ..... SC
WT4E COLLIERVILLE .....107.2 TN
WD4DBJ CUMBERLAND CITY ..... TN
WA4TEM KNOXVILLE ..... TN
KE4ZBH FARMVILLE ..... VA
W4VB NORFOLK ..... VA
WR8M WILLIAMSON ..... WV

144.7500 / 145.3500

W4DOC ATLANTA .....146.2 GA
W4GTA LOOKOUT MTN .....100.0 GA
KD4MFS OCILLA ..... GA
AI4HB RADCLIFF .....173.8 KY
KD4DAX WILLIAMSBURG ..... KY
N4DRL BYHALIA ..... MS
N5ZMZ UTICA ..... MS
WA4AOS CHARLOTTE ..... NC
WD4JPQ GREENVILLE .....131.8 NC
KE4OVN DRESDEN .....107.2 TN
WD4JYD NOLENSVILLE .....114.8 TN
N4AZJ BLAND .....103.5 VA
KF4LWH SOUTH BOSTON ..... VA
W8GK CHARLESTON .....91.5 WV
W8SP FAIRMONT .....103.5 WV

144.7700 / 145.3700

AA4UA AUGUSTA ..... GA
KB4IZF JASPER .....100.0 GA
W4BKM MACON ..... GA
KE4YVD RICHMOND .....192.8 KY
K5LIX HATTIESBURG .....136.5 MS
N5PYQ SOUTHAVEN .....107.2 MS
N4NCK BUTNER ..... NC
W4HF N. WILKESBORO ..... NC
K4PPD SHALLOTTE ..... NC
KB4KIE KNOXVILLE ..... TN
WR3S NASHVILLE ..... TN
W4HZL GLOUCESTER ..... VA
KC4RBA LYNCHBURG .....186.2 VA
WV8BD BECKLEY/EOC ..... WV
K8VNQ PARSONS .....118.8 WV

144.7900 / 145.3900

K4HYB GRIFFIN .....88.5 GA
WF4N #CENTRAL CITY ..... KY
N4EQT LAWRENCEBURG .....107.2 KY
KC8FKP SO. PORTSMOUTH .....136.5 KY
KB5KGE JACKSON ..... MS
N4ZVN MONROE/UCARS .....94.8 NC
WB4TQD RALEIGH .....82.5 NC
W4AM CHATTANOOGA ..... TN
W4WC GREENEVILLE ..... TN
WB4DOR LEBANON ..... TN
K4ARO ROANOKE/POOR MT .....107.2 VA
KF8HL #LENORE ..... WV
WD8EOM WESTON ..... WV

144.8100 / 145.4100

W4PME ATLANTA/BELL .....100.0 GA
K4KNS AUGUSTA ..... GA
WA4MXO JACKSON ..... KY
KK4CZ LOUISVILLE .....127.3 KY
KC5IF D'IBERVILLE ..... MS
N4XO CHINA GROVE .....136.5 NC
K4SER WILLIAMSTON .....131.8 NC
N4VIH DOVER ..... TN
WB4NKM GRNVL/VIKING MT .....173.8 TN
K5FE MEMPHIS .....107.2 TN
NQ4Y MONTEAGLE MTN .....114.8 TN
KF4ADM WILLIAMSBURG .....127.3 VA
N8FHE BUCKHANNON ..... WV
WV8AR RED HOUSE .....123.0 WV
W8IFL UNION ..... WV

144.8300 / 145.4300

K4LCI ATLANTA ..... GA
KA4EIM JESUP ..... GA
AA4RI MACON ..... GA
KX5E GLOSTER .....136.5 MS
KU4W RAEFORD .....100.0 NC
K4QFQ SPARTA/GREEN MT ..... NC
KF4GHC GILBERT .....156.7 SC
KB4YTU BROWNSVILLE ..... TN
KF4SCT BUCKSNORT .....107.2 TN
WA4UCE COOKEVILLE ..... TN
WB4YLC KNOXVILLE ..... TN
AD4OV COEBURN .....103.5 VA
W4SQT RICHMOND ..... VA
WB8YST CHARLESTON .....107.2 WV
K8LG MORGANTOWN ..... WV

144.8500 / 145.4500

W4BOC DECATUR ..... GA
KG4FEJ ROCKFIELD .....136.5 KY
WX5P FULTON ..... MS
N5ZQC SHARON .....100.0 MS
WD4PLY CRDR MT/GASTONIA ..... NC
WR4AGC DURHAM ..... NC
K4GRW NEWPORT ..... NC
WD4EOG CLEMSON UNIV ..... SC
W4ZKM JACKSON .....123.0 SC
N7GZT MT. PLEASANT ..... SC
K4SIR BENTON ..... TN
WA4KOG MEMPHIS ..... TN
KG4E MORRISTOWN ..... TN
KF4GHD #MT PLEASANT .....127.3 TN
AA4HQ SALUDA ..... VA
KD4KAU STAUNTON .....131.8 VA
N8LGY GRANTSVILLE .....103.5 WV
WB8SXZ WELCH ..... WV

144.8700 / 145.4700

KD4HMH BONAIRE ..... GA
KF4UM RICEBORO ..... GA
N4CLA SILVER MT/MARIETT ..... GA
WB4GGH BARDSTWN/NELSN .....151.4 KY
KF4ZTB HUEYSVILLE .....79.7 KY
KF4BRO MAYSVILLE .....107.2 KY
KF4SCT OXFORD .....107.2 MS
W4OIX KINSTON ..... NC
W4NC SAURATOWN MT .....100 NC
KN4FC GAFFNEY .....141.3 SC
KI4CB MT PLEASANT/CONWAY .....179.9 SC
WB4GBI KNOXVILLE ..... TN
KF4RBR MOUNTAIN CITY .....103.5 TN
N4ARK NASHVILLE ..... TN
N4ZCM SOUTH HILL ..... VA
W8FG SUMMERSVILLE .....100.0 WV

144.8900 / 145.4900

W4DV AUGUSTA ..... GA
KA4WUJ CORDELE .....103.5 GA
W4LMA MARIETTA .....88.5 GA
W4KVK HENDERSON ..... KY
WB4CWF LEXINGTON ..... KY
N5VGK TUPELO ..... MS
NT4K FRANKLIN ..... NC
WB4IKY SIGNONVILLE .....107.2 NC
WA4BWC RALEIGH .....88.5 NC
W4APE CHERAW ..... SC
WA4KOG BRADEN ..... TN
WB4LHO MCMINVL/SHT MT ..... TN
K4CQ AMHERST .....136.5 VA
W8MOP BLUEFIELD ..... VA
WA4OHX HAMPTON ..... VA
WV8G PARKERSBURG ..... WV

146.0100 / 146.6100

W4CVY COLUMBUS ..... GA
WB4JEH CONYERS .....151.4 GA
WD4KWV CORBIN ..... KY
KC4FRA MADISONVILLE ..... KY
KC5OZW LAUREL ..... MS
W4EWN NEW BERN .....100.0 NC
WB4TOP RALEIGH .....131.8 NC
KC4WIF ELLOREE .....118.8 SC
W4NYK GRNVLE/CSRS HD ..... SC
W4AM CHATTANOOGA ..... TN
WA4PCD NASHVILLE ..... TN
K4JP ABINGDN/BRMLY MT ..... VA
WA4YSE CHESAPEAKE ..... VA
W4WWQ LYNCHBURG .....136.5 VA
WB8MZJ GALAWAY ..... WV

146.0250 / 146.6250

WA4UPE ATL/UNION CITY ..... GA
N4UJT ELBERTON ..... GA
K4HAO VIDALIA ..... GA
WA4GOZ BOWLING GREEN .....103.5 KY
K4ULW WEBSTER .....151.4 KY
KC5ULN COLUMBUS ..... MS
KE5IWO PORT GIBSON ..... MS
N4WET BANER ELK/SUGAR ..... NC
K4USB BUXTON .....131.8 NC
KI4RR LAURINBURG ..... NC
KF4SXO CHESTER ..... SC
KF4TNP CORNERSVILLE .....107.2 TN
WB4GBI KNOXVILLE .....100.0 TN
N4ABU MARTIN ..... TN
K4SVA JARRATT I-95 ..... VA
WV8B FLAT TOP/WINTRPL .....100.0 WV

146.0400 / 146.6400

WB4QGR #ATLANTA ..... GA
W4FWD CARROLLTON .....131.8 GA
AE4PO WAYCROSS .....141.3 GA
WA4UXJ CANE VALLEY ..... KY
K5XU MANTON ..... MS
WB5NAY MOORESVILLE ..... NC
WB4YAO HENDERSONVILLE .....100.0 NC
W4DW RALEIGH .....88.5 NC
W4NC WINSTON-SALEM .....100 NC
W4GL SUMTER ..... SC
KA4QYI HARRIMAN .....100.0 TN
WB4KQQ MEMPHIS ..... TN
AF4TZ NASHVILLE W ..... TN
W4WIC FINCASTLE ..... VA
N4QLF MARION .....103.5 VA
WB4QEY RICHMOND ..... VA
WB8EZR HUNTINGTON/CHAS ..... WV

146.0550 / 146.6550

N4NFP ATLANTA/MARIETTA .....118.8 GA
W4WSM BOWLING GREEN-SO ..... KY
WD4DZC DANVILLE ..... KY
K4CUW PADUCAH ..... KY
KC5ZZH MERIDIAN ..... MS
K4CEB #CONCORD/KANNAP ..... NC
WA4VTX ELIZABETH CITY .....131.8 NC
KD4KOJ BEAUFORT ..... SC
KD4AOK BROWNSVILLE ..... TN
W4RDM LAWRENCEBURG ..... TN
W4OLB MARYVILLE/ALCOA ..... TN
WA4ISI ALTAVISTA ..... VA
N8ZPX FLATWOODS .....123.0 WV
N8SNW IAEGER .....203.5 WV

146.0700 / 146.6700

W4ABP GAINESVILLE .....131.8 GA
KF4SJO HAZARD ..... KY
W4KBL PRINCETON ..... KY
W5UBG NEW ALBANY ..... MS
KB5ZQX PURVIS ..... MS
K4FHB BURLINGTON ..... NC
WA4BKU FOREST CITY ..... NC
AD4DN WILMINGTON .....88.5 NC
AD4U ST. MATTHEWS .....156.7 SC
W4UD BRISTOL ..... TN
K4BGW LAFOLLETTE ..... TN
AF4TZ NASHVILLE W .....114.8 TN
W4CBM DUBLIN ..... VA
KD4DDI PAGECO ..... VA
K4RC WILLIAMSBURG ..... VA
WD8JNU RAVENSWOOD ..... WV

146.0850 / 146.6850

WD4IWL ADAIRSVILLE ..... GA
K4KZY FAYETTEVILLE ..... GA
KF4NTQ GEORGETOWN .....107.2 KY
N4WJS GREENSBORO .....110.9 KY
W5KHB NATCHEZ ..... MS
W4NBR GRIFTON .....88.5 NC
KE4WSX STATESVILLE ..... NC
K4USC UNION ..... SC
KF4ARH WALLAND .....88.5 TN
WA1ZMS BEDFRD/APL ORCH .....100.0 VA
N8FMD CLARKSBURG .....103.5 WV
WB8NAM DANVILLE ..... WV

146.1000 / 146.7000

W4MM #ALBANY ..... GA
K4UFO JASPER ..... GA
KD4BWK LAGRANGE .....141.3 GA
WB4DOJ MILLEDGEVILLE .....67.0 GA
K4NLX SAVANNAH ..... GA
KY4KY BROOKS .....151.4 KY
KD4DZE GRAYSON .....107.2 KY
WB4FUR BAY ST. LOUIS ..... MS
W5LV GRENADA ..... MS
W5FQ MERIDIAN ..... MS
KD4GLB CROSSNORE .....167.9 NC
N4CID DUNN ..... NC
W4PAX LANCASTER ..... SC
WR4PKZ PICKENS .....107.2 SC
KF4BVQ ANDERSON CTY .....100.0 TN
W4UOT MANCHESTER .....114.8 TN
WB4MMI RAMER .....107.2 TN
WA4YGM UNION CITY ..... TN
K4AU DANVILE/WHT OAK .....107.2 VA
KF8PT NORFOLK ..... VA
AF4FB PENNINGTON GAP .....103.5 VA
KD4WWF STAUNTON .....131.8 VA

146.1100 / 146.7100

KF4FO HOPKINSVILLE ..... KY

146.1150 / 146.7150

K4NVG LAVONIA .....100.0 GA
WA4BZ RINGGOLD .....67.0 GA
KF4OFT BEREA .....100.0 KY
KA5DQY GREENWOOD ..... MS
KD4JFN HAW RIVER .....107.2 NC
N4GGN MILLERS CREEK ..... NC
WB4NEP COLUMBIA ..... SC
KB4JUB SALTILLO ..... TN
W9KIC BLACKSBURG ..... VA
KA4DZU WALKERTON ..... VA

146.1300 / 146.7300

W4MM #ALBANY ..... GA
KD4NC ATLANTA/SWEAT MT ..... GA
K4TVE BRUNSWICK ..... GA
WR4DH MACON .....100.0 GA
AC4AO LEXINGTON ..... KY
AA4NI #NEBO ..... KY
KC5IF BILOXI ..... MS
KD5GVU STARKVILLE .....210.7 MS
WB8WC RALEIGH .....88.5 NC
W4EXU SALISBURY .....94.8 NC
W4VNK WILMINGTON ..... NC
K4NAB N. AUGUSTA ..... SC
WA4UKX SIMPSONVILLE .....100.0 SC
WB4IOB KNXVL/ENG MT ..... TN
KE4LFZ MEMPHIS .....107.2 TN
WD4EHL WATERTOWN .....100.0 TN
W4QR HAMPTON ..... VA
WB8SPW LEWISBURG .....100.0 WV

146.1450 / 146.7450

KD4QHB ATHENS ..... GA
K4WOC CALHOUN .....100.0 GA
WA4TTG GREENVILLE ..... KY
KD4RTR MILLARD .....141.3 KY
KC5VZI #NEW ALBANY ..... MS
KC4QPR MORGANTON .....94.8 NC
NN4N DILLON/PEE DEE ..... SC
WB4RCK DYERSBURG ..... TN
KC4WHL HARRIMAN ..... TN
K4ROA ROANOKE/POOR MT .....107.2 VA

146.1600 / 146.7600

KS4OA LOOKOUT MT. .....67.0 GA
WB4BOC STONE MT .....107.2 GA
WR4MG UNADILLA .....107.2 GA
KF4BJM VALDOSTA .....141.3 GA
K4KJQ LEXINGTON ..... KY
K4CUW PADUCAH ..... KY
W5AXQ JACKSON ..... MS
WA4BVW ASHVL/MT PISGAH ..... NC
K4GWH GREENSBORO .....88.5 NC
KB2XI SWANSBORO ..... NC
WB4THL WILSON .....131.8 NC
K4ESG MT PLEASANT ..... SC
K4JP BRSTL/HOLSTN MT ..... TN
WA4PCD NASHVILLE .....114.8 TN
WA4TFZ CHARLOTTESVILLE .....88.5 VA
KB4ZIN WILLIAMSBURG ..... VA
W8VA HUNTINGTON ..... WV
N4RAG LEWISBURG .....131.8 WV
W8CUL MORGANTOWN ..... WV
W8ZQ WHEELING ..... WV

146.1750 / 146.7750

N4NEQ MARIETTA .....118.8 GA
KB4NA WRENS ..... GA
W4PPM MIDDLESBORO ..... KY
KJ4OG TOMPKINSVILLE ..... KY
AE4SK VANCEBURG ..... KY
W5CJR HATTIESBURG .....136.5 MS
NC4SU RALEIGH .....88.5 NC
W4ZU SOUTHPORT .....100.0 NC
KF4GHC FORT JACKSON .....156.7 SC
KF4SCT FRUITLAND .....107.2 TN
W4JVO PULASKI/MUSIC MT ..... TN
AG4AN FOREST .....131.8 VA
WB3T WYTHEVILLE .....107.2 VA
KB8BWZ LEWISBURG ..... WV

146.1900 / 146.7900

KD4GEY FO' KSTON ..... GA
WD4KOW MOULTRIE ..... GA
K4SEX #NEWNAN ..... GA
K4VYX SWAINSBORO ..... GA
W4YWH HIGHLAND HEIGHTS ..... KY
KA4UHL NANCY .....100.0 KY
K5TYP BILOXI ..... MS
W4TLP CLINTON ..... NC
KG4ASL SAURATOWN MT .....107.2 NC
N4AW ANDERSON/SAS MT ..... SC
WA4USN CHARLESTON ..... SC
W4AM CHATTANOOGA ..... TN
W4ABR JOHNSON CITY ..... TN
W4KIB MEMPHIS .....107.2 TN
W4SQE NASHVILLE ..... TN
N4SD CHESAPEAKE ..... VA
NM8T OAK HILL ..... WV

146.2050 / 146.8050

K4PDQ MACON .....77.0 GA
KA4NNE ELKTON .....151.4 KY
W8PRH HAZARD ..... KY
KF5C STARKVILLE .....192.8 MS
K5IMT #VICKSBURG ..... MS
N4EWG FAYETTEVILLE ..... NC
K4GNC GASTONIA/CRWDR ..... NC
W4DCG ROCKY MOUNT .....118.8 NC
KF4ATU ORANGEBURG .....156.7 SC
W4EYJ CROSSVILLE ..... TN
WB4VXX #LEWISBURG ..... TN
WB4MMI SELMER .....107.2 TN
WA4HTI COVINGTON ..... VA
W4ML MECHANICSVILLE ..... VA

147.4050 / 146.8050

KC4AQS JASPER .....100.0 GA
W4DJB CANTON ..... NC
KD4TC #HONAKER ..... VA

146.2200 / 146.8200

W4MM ALBANY ..... GA
W4DOC ATLANTA .....146.2 GA
K4HVK KIBBEE ..... GA
KF4DKJ DRAKESBORO ..... KY
W4CMR IRVINE .....192.8 KY
K5HYE MAGEE .....100.0 MS
WB4PZA ROARING GAP ..... NC
W4GMP WILMINGTON .....88.5 NC
KT4NZ CAMDEN .....131.8 SC
W4NYK GRNVLE/PARIS MT ..... SC
WB4QAH LAKE CITY ..... TN
W4BS MEMPHIS ..... TN
AB4SW WINCHESTER ..... TN
W4CAR CHESAPEAKE .....162.2 VA
K4WWB GATE CITY ..... VA
WB8IFS CHARLESTON ..... WV

146.2350 / 146.8350

KC4GSS THOMSON ..... GA
KC4ZOX SALVISA .....192.8 KY
WB4PLA #ASHEVILLE ..... NC
KB4TOH COLUMBIA .....131.8 NC
W4USH WADESBORO ..... NC
KT4YW CHARLESTON ..... SC
KB4YTM HUNTINGDON ..... TN
W4LYR WATERTOWN .....100.0 TN
KK4EH GRUNDY/BIG A MT ..... VA
N4UTN RUSTBURG/LONG MT ...173.8 VA

147.4350 / 146.8350

N4KHQ DAHLONEGA .....100.0 GA
KB4BPV HIGH POINT ..... NC

146.2500 / 146.8500

W4RPO DALLAS ..... GA
KE4WAQ SAVANNAH ..... GA
WA4ORT WARNER ROBINS ..... GA
KM4IV PIKEVILLE ..... KY
K5JMD BUDE .....103.5 MS
WB5MFK IUKA ..... MS
W5LWC WAQUIOUSKO ..... MS
K4CYP GOLDSBORO ..... NC
WA4DSZ HICKORY/BRT. MT ..... NC
N4IV REIDSVILLE .....103.5 NC
W4ULH FLORENCE ..... SC
WA4KJH GTLBG/COVE MTN .....127.3 TN
WA4KOG MEMPHIS ..... TN
W4AY NASHVILLE .....114.8 TN
W4POX PORTSMOUTH ..... VA
WA4ZBP STAUNTON .....131.8 VA
WV8BD BECKLEY/FLAT TOP ..... WV
N8ZAR BUCKHANNON ..... WV

146.2650 / 146.8650

N4ZON JESUP .....123.0 GA
WB4DKY MADISON .....179.9 GA
KM4OF OWENSBORO ..... KY
KG4AEU RICHMOND .....192.8 KY
KD4HLH LAURENS .....107.2 SC

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

KF4DPU CROSSVILLE ..... TN
KN4KP TRENTON ..... TN
KF4VDF NORTON .....103.5 VA

147.4650 / 146.8650

N5DWU ELLISVILLE .....136.5 MS
KB4YSX MURPHY/STALCUP .....151.4 NC
WA4ZRS WAXHAW .....94.8 NC
WZ8E MOUNTAIN LAKE .....110.9 VA

146.2800 / 146.8800

W4CVY COLUMBUS ..... GA
W4BTI MARIETTA/ATLANTA .....100.0 GA
WA4NKL QUITMAN ..... GA
W4HBB SAVANNAH ..... GA
W4PF LOUISVILLE ..... KY
KA4UHL SOMERSET .....77.0 KY
K5QNE JACKSON .....100.0 MS
KE5SJ PASCAGOULA ..... MS
WB4TQD RALEIGH ..... NC
W4NYR SHELBY ..... NC
KF4IIM ORANGEBURG .....118.8 SC
WD4CYZ BRISTOL ..... TN
WA4KOG MEMPHIS ..... TN
WA4PCD NASHVILLE ..... TN
W4SKH OAK RIDGE ..... TN
W4RAT RICHMOND ..... VA
WA4V SALEM ..... VA
WB8CQV SO. CHARLESTON .....203.5 WV

146.2950 / 146.8950

N4VNI HARTWELL .....100.0 GA
WR4MG HAWKINSVILLE .....107.2 GA
N3SM MACON .....123.0 GA
K4JBV FLORENCE .....100.0 KY
KA4BLZ LYNN GROVE .....210.7 KY
W4APE PAGELAND ..... SC
KF4HNV CROSSVILLE .....118.8 TN
WD4EGD DANDRIDGE ..... TN
N4RAG CHARLOTTESVILLE .....131.8 VA
WA4KXV VIRGINIA BEACH ..... VA
WB3T WYTHE/WALKR TOP .....103.5 VA

147.4950 / 146.8950

WD4LUQ DALLAS .....77.0 GA
KC4KZT DORTON .....141.3 KY
N5DWU ELLISVILLE .....136.5 MS

146.3000 / 146.9000

WB4WVH IRVINGTON ..... KY

146.3100 / 146.9100

WB4HIG CLEVELAND ..... GA
K4HYB GRIFFIN ..... GA
K4GFY MOREHEAD .....123.0 KY
KS4TO WADDY .....107.2 KY
K5VV HERNANDO ..... MS
WA5JZL LUCEDALE ..... MS
K5OCM NATCHEZ .....91.5 MS
WA4ZGQ AHOSKIE .....131.8 NC
W4MOE ASHVL/SPIVEY MT .....91.5 NC
WB4YZF FAYVLLE/CFARS .....100 NC
K4IZM LEXINGTON .....107.2 SC
W4BWZ WHITE HALL ..... SC
KC4ROG KNOXVILLE ..... TN
W4YXA SHORT MTN ..... TN
KE4ZBH FARMVILLE ..... VA
K4TUE MT.LAKE/BALD KNB .....107.2 VA
N8BQ MCMECHEN ..... WV

146.3250 / 146.9250

WA4ASI COVINGTON ..... GA
N4PJR JESUP ..... GA
W4BEJ RADCLIFF ..... KY
WB5VOJ CORINTH .....107.2 MS
AD4T #DOBSON .....100.0 NC
W4APE BISHOPVILLE ..... SC
W4GZX CLEVELAND ..... TN
WA4TLZ CUMBERLAND CITY .....127.3 TN
WD4OBW JONESBOROUGH ..... TN
WA4TFZ CHARLOTTESVILLE ..... VA
WB4GJG DANVILLE(DCC) .....107.2 VA
WD8OGY PRINCETON/PIPEST ..... WV

146.3400 / 146.9400

KT4N AUGUSTA ..... GA
W4VO ROME/MT. ALTO .....88.5 GA
WA4RVB WRIGHTSVILLE ..... GA
KG4DVE ASHLAND ..... KY
KY4X GLASGOW .....114.8 KY
K4MSU MURRAY ..... KY
KB5DWX AMORY .....192.8 MS
KA5SBK JACKSON .....100.0 MS
K5JMD MCCOMB ..... MS
W4DLH BURGAW ..... NC
WA4IZG BUTNER .....156.7 NC
W4BFB CHARLOTTE ..... NC
W4ACY MANTEO/WANCHES ..... NC
KF4CDR CHARLESTON ..... SC
W4IQQ GREENVILLE .....7 SC
WB4GBI KNOXVILLE ..... TN
N4BSM MEMPHIS .....107.2 TN
K4UMI HAMPTON ..... VA
W4ZA RICHMOND ..... VA
N4AP ROANOKE ..... VA
KD8AB FENWICK ..... WV
W8CWO WEIRTON ..... WV

146.3550 / 146.9550

KD4AOZ ATHENS .....123.0 GA
KE4RQT BLAIRSVILLE .....100.0 GA
WR4MG PERRY .....107.2 GA
KF4BRQ FLEMINGSBURG .....107.2 KY
WB9SHH MONTECELLO .....88.5 KY
N5EKR ELLISVILLE ..... MS
KC5OB ISOLA ..... MS
KD4WAR BURNSVILLE ..... NC
K4RNC ROCKINGHAM ..... NC
NT4L #NASHVILLE .....114.8 TN
WZ8E BLUEFIELD/ONEIDA.....100.0 VA
N4CFA FARMVILLE .....136.5 VA

146.3700 / 146.9700

K4CLJ ATLANTA ..... GA
W4HBB SAVANNAH ..... GA
K4DPP #HENDERSON ..... KY
W8PRH STANTON ..... KY
KI5FW MERIDIAN .....100.0 MS

N5PH PASCAGOULA ..... MS
N5EYM WINONA .....110.9 MS
KD4BJD BENSON .....100.0 NC
N4XRY MOUNT AIRY ..... NC
N4AW ANDERSON ..... SC
W4GEY FLORENCE ..... SC
W4TRC KNGSPT/BAYS MT ..... TN
WD4MWQ MCMINNVILLE ..... TN
WA4RWK MEDINA ..... TN
W4SKH OAK RIDGE ..... TN
W4WRN STAUNTON ..... VA
WA4KXV VIRGINIA BEACH ..... VA
KJ8E LOGAN/WRD RK MT ..... WV
N8NBL PARKERSBURG (OH) ..... WV

146.3800 / 146.9800

WA8EJ ELIZABETHTOWN ..... KY

146.3850 / 146.9850

K4KNS AUGUSTA .....100.0 GA
KC4ZGN ELLIJAY/TALONA M .....77.0 GA
KN4FE WARM SPRINGS ..... GA
N4SEI #JONATHAN CREEK ..... KY
N5LRQ COLLINS .....136.5 MS
KB5DMT SENATOBIA .....107.2 MS
K4OQB ALBEMARLE ..... NC
WD4PVE MARION .....118.8 NC
KC4PRD NASHVILLE ..... TN
KK4MW #CLINCHCO .....103.5 VA
KE4SCS PETERSBURG .....131.8 VA
W4CA ROANOKE/POOR MT ..... VA
KF8LL NEW MARTINSVILE ..... WV

146.3900 / 146.9900

WB4LBI #NICHOLASVILLE ..... KY

146.4000 / 147.4000

WA4NNO ATLANTA ..... GA
K5UFH CORINTH ..... MS
KE5TL #VANCLEAVE ..... MS
N5DXM WATER VALLEY ..... MS
WD4FVO JACKSONVILLE ..... NC
WA4MRV MARION ..... SC
WB4YZ PICKENS ..... SC
KD4CWB #KNOXVILLE .....100.0 TN
W4ZJM MEMPHIS .....* TN
W4LG SUFFOLK .....100.0 VA
K8WMX ST ALBANS ..... WV

147.6000 / 147.0000

W4EEE BOGART ..... GA
KE4LR SHELBYVILLE ..... KY
KG4M WILLIAMSBURG ..... KY
KC5ULN COLUMBUS ..... MS
W5IQ JACKSON ..... MS
WW4DC THOMASVILLE .....88.5 NC
W4CBX BLOUNTVILLE ..... TN
WD4SGA CLARKSVILLE ..... TN
KA6UHV COLLEGEDALE ..... TN
KD8ZR TERRA ALTA ..... WV

146.4150 / 147.0150

W4GIS CARTERSVILLE .....100.0 GA
N4YSB YADKINVILLE ..... NC
AB4M LYNCHBURG .....131.8 VA
K4AXO NORTON/HIGH KNB .....88.5 VA

147.8150 / 147.0150

K4EDN BONAIRE .....82.5 GA
KF4UM HINESVILLE ..... GA
AD4RU IRVINE ..... KY
N5JHK MONTICELLO ..... MS
NC4LC LINCOLNTON .....141.3 NC
KD4MYE RALEIGH ..... NC
W4GL SUMTER .....156.7 SC
AF4TZ NASHVILLE ..... TN
AA4KS RCKWD/MT ROSVLT ..... TN
KF4SCT UNION CITY .....107.2 TN
AA8TH RICHWOOD ..... WV

146.4300 / 147.0300

WV5D LAUREL ..... MS
KU4OL MOUNTAIN REST ..... SC
K4YTZ ROCK HILL ..... SC
WA4JST RICHMOND ..... VA

147.6300 / 147.0300

W4REI ATLANTA/AIRPORT ..... GA
KD4ULE HOPKINSVILLE .....103.5 KY
W4PJZ LOUISVILLE .....151.4 KY
W5LDD OCEAN SPRINGS ..... MS
KG4BTN GREENSBORO .....131.8 NC
KB4DJT ROANOKE RAPIDS ..... NC
KF4CVO BARNWELL .....156.7 SC
KA9NMB #N. MYRTLE BEACH ..... SC
W4BV FAYETTEVILLE ..... TN
W4EM MEMPHIS ..... TN
KO4E MORRISTOWN ..... TN
KC8IT MULLENS ..... WV
WB8ECC ST.MARYS/BENS RG..... WV

146.4450 / 147.0450

K4AIH ANDRWS/ROBNSVL .....151.4 NC

147.6450 / 147.0450

KE4ZRT DOUGLAS .....141.3 GA
KD4AOZ WATKINSVILLE .....123.0 GA
KI4VF GRETHEL .....100.0 KY
KE4OOS PARIS .....141.3 KY
KB5LCL POLKVILLE .....141.3 MS
N1BEC BALD CREEK ..... NC
W4NHV LUMBERTON ..... NC
KC4MJC #STATESVILLE .....77.0 NC
K4ILT ST. GEORGE .....123.7 SC
WD4OZN BOLIVAR ..... TN
N2UP LIVINGSTON ..... TN
K4AYN NASHVILLE ..... TN
KE4CKJ STAUNTON/EL.KB .....131.8 VA
WA4SBC VIRGINIA BEACH ..... VA

146.4600 / 147.0600

W4CQ CHARLOTTE ..... NC
KD4LDU CHARLESTON .....141.3 TN
KF4AGO SOUTH BOSTON ..... VA
KA8PNC PRINCETON ..... WV

147.6600 / 147.0600

WA4DDI MACON ..... GA
NC4LA ROSWELL ..... GA
W4UCJ THOMASVILLE ..... GA
K4LOL BOWLING GREEN .....156.7 KY

W4NJA #PADUCAH ..... KY
N5OCF RICHTON ..... MS
WA4LED MACO .....88.5 NC
W4VFR SUMTER/SHAW ..... SC
KB4UG GRNVL/VIKING MT ..... TN
WA4MQQ MEMPHIS ..... TN
N4VFB SHELBYVILLE ..... TN
WB4VWR BNDN .....107.2 VA
N8ZAR BUCKHANNON .....123.0 WV

147.6700 / 147.0700

N4NMC LOUISVILLE .....151.4 KY

146.4750 / 147.0750

NM8T SMITHERS ..... WV

147.6750 / 147.0750

W4CLA CLAXTON ..... GA
W4GR LAWRENCEVILLE .....82.5 GA
N4TLP OWINGSVILLE ..... KY
NC5Y JACKSON ..... MS
K4CCR NEWTON .....88.5 NC
KD4JFN PITTSBORO .....146.2 NC
KT4BU EASTOVER .....156.7 SC
WQ4E GREENBRIER .....107.2 TN
WB4GBI KNOXVILLE ..... TN
KF4SCT MCNAIRY .....107.2 TN
AD4ZK NORFOLK ..... VA
W4PNT WAYNESBORO ..... VA
KE8MR MORGANTOWN .....103.5 WV

147.6900 / 147.0900

KE4RWR BAINBRIDGE ..... GA
KC4YHM EATONTON .....179.9 GA
K2YRW YOUNG HARRIS ..... GA
KF4CWK DAWSON SPRINGS .....103.5 KY
KJ4YK HELPS ..... KY
KB5DSN AMORY ..... MS
N5MRS NEW HEBRON ..... MS
WB5FXH #SUMNER ..... MS
W4GDF GREENVL/ESTN NC ..... NC
KI4DH STAR/BISCOE ..... NC
KF4ATU GRANGERBURG .....156.7 SC
K4JLX SPARTANBURG ..... SC
AD4QG EVA ..... TN
K4NLP JAMESTOWN .....100.0 TN
W4GMM MEMPHIS .....107.2 TN
W4BRC GALAX/BRIRP MT ..... VA
N4TZE GOOCHLAND ..... VA
N4RAG MARLINTON .....131.8 WV

147.7050 / 147.1050

WB6RTH ATLANTA .....107.2 GA
WO4D STATESBORO ..... GA
N4EQT FRANKFORT .....107.2 KY
WA4ZAC HARLAN ..... KY
K9ZK #HAWESVILLE ..... KY
W5SAR WAYNESBORO ..... MS
K4ITL BROADWAY ..... NC
WA4KNI HENDERSONVILLE ..... NC
KD4NEC CLEVELAND ..... TN
K4TC HENDERSON ..... TN
W4LYR CRANON .....100.0 TN
WB4JBJ BEDFORD ..... VA
KB4ZIN WILLIAMSBURG ..... VA
KA8AUW SPENCER .....100.0 WV

147.7200 / 147.1200

W4CMA CEDARTOWN ..... GA
KD4CHA CLARKESVILLE ..... GA
KT4N #LINCOLNTON ..... GA
KA4KMT #LOUISVILLE ..... KY
WB4ASZ WINCHESTER ..... KY
NO5N ACKERMAN ..... MS
N4GAS GASTONIA/SPCR MT ..... NC
WN4Z ROCKY MOUNT .....131.8 NC
W4GS MYRTLE BEACH ..... SC
W4GGM COLUMBIA ..... TN
N4WAH MEMPHIS .....107.2 TN
K4EAJ OAK RIDGE .....82.5 TN
WB8POC PATRICK SPRINGS .....107.2 VA
WB8DKM BRIDGEPORT ..... WV
WB8NAM MADISON ..... WV

147.7350 / 147.1350

N4BZJ DALTON .....118.8 GA
WR4SG LAKE PARK .....141.3 GA
K4GK MILLEDGEVILLE .....123.0 GA
KF4CME BARBOURVILLE .....100.0 KY
KE4SZK FRANKLIN .....136.5 KY
KF4WMM SANDY HOOK .....107.2 KY
KB5UIX VOSSBURG .....136.5 MS
K4HXZ BREVARD ..... NC
K4ITL CHAPEL HILL .....82.5 NC
WA4US WILMINGTON .....67.0 NC
KF4GPE CHESTERFIELD ..... SC
KG4BZN WALTERBORO ..... SC
WB4EDS KNOXVILLE ..... TN
N4AZJ PEARISBURG .....100.0 VA
KC4VDZ RICHMOND .....107.2 VA
KE8MR DAVIS .....103.5 WV
KC8TLG ROCKPORT .....123.0 WV

147.7500 / 147.1500

WB4GQX CUMMING ..... GA
WA4IDS SAVANNAH ..... GA
K4KOP #LOUISVILLE .....141.3 KY
KI5W BOONEVILLE ..... MS
KF5IZ PEARL/RANKIN CO .....88.5 MS
K4VLY MORGANTON ..... NC
K4ITL ROANOKE RAPIDS .....82.5 NC
WD4NUN MONCKS CORNER ..... SC
WA4PCD NASHVILLE WEST .....114.8 TN
K4EAJ OAK RIDGE .....82.5 TN
KB4RFN CLINCHCO .....88.5 VA
KB8YDG RICHWOOD .....100.0 WV

147.7650 / 147.1650

KF4XH #MACON ..... GA
N4NEQ MORGANTON .....151.4 GA
N4OME TYRONE ..... GA
W4WSM BOWLING GREEN ..... KY
WA4HBM LEXINGTON ..... KY
WB4UBY PRESTONSBURG ..... KY
W4UA HIGH POINT ..... NC
KD4PBK LUMBERTON .....88.5 NC
W4GWD GREENWOOD .....107.2 SC

KF4BRS ERWIN/UNICOI ..... TN
WA4CEX PURYEAR ..... TN
KR4BT SPARTA/WHITE .....123.0 TN
W4CM NEWPORT NEWS ..... VA
WC8K WESTON ..... WV

147.7800 / 147.1800

N4BMA AUGUSTA ..... GA
WD4NHW BALDWIN ..... GA
WB4BDP WARNER ROBINS ..... GA
KE4ZJT LONDON .....151.4 KY
W4CN LOUISVILLE .....88.5 KY
KC5LIO WEST POINT ..... MS
WA1YYN EFLAND .....156.7 NC
AC4RC WILMINGTON .....88.5 NC
W4DXA FORT MILL ..... SC
W4HNK SUMMERVILLE .....123.0 SC
WD4DES CLEVELAND .....118.8 TN
WA4KOG MEMPHIS ..... TN
K4ZGA NASHVILLE .....114.8 TN
KB4YKV AMELIA COURTHSE ..... VA
WD4ITN MONTEREY .....100.0 VA
WB3S PKS KB/PULASKI .....103.5 VA
WD8OHX LEON ..... WV

147.7950 / 147.1950

KA4PD ATLANTA ..... GA
W4UCJ BOSTON ..... GA
KJ4VF LEXINGTON ..... KY
N4NIN #LENOIR ..... NC
KO4CW RALEIGH .....88.5 NC
W4APE FLORENCE ..... SC
KC4FV ARNOLD A.F.B. ..... TN
KD4CWB KNOXVILLE .....100.0 TN
AF4OQ SARDIS ..... TN
WA4RTS LYNCHBURG .....136.5 VA
WT4RA SMITHFIELD .....100.0 VA
NV8H LOGAN SOUTH .....100.0 WV

147.8100 / 147.2100

KF4GHF CONYERS .....162.2 GA
K4NLX SAVANNAH ..... GA
KB4DFK BLACK MOUNTAIN .....103.5 KY
K4HY OWENSBORO .....110.9 KY
N5SPJ UNION .....100.0 MS
W4BUZ GREENSBORO ..... NC
W4SLH ORIENTAL ..... NC
W4NTQ WHITEVILLE ..... NC
K4AVU LITTLE MT. ..... SC
N4WS COOKEVILLE ..... TN
WF4O JACKSON .....107.2 TN
KB8NJH AMBER RIDGE .....107.2 WV
N8FMD CLARKSBURG .....103.5 WV

147.8250 / 147.2250

KG4ABK DOERUN ..... GA
W4RLP SUMMERVILLE .....100.0 GA
KB4NFK #LITCHFIELD ..... KY
N4DRL BYHALIA ..... MS
W5BJT #FRENCH CAMP ..... MS
WB4SRV CLAREMONT .....162.2 NC
WR4AGC HILLSBOROUGH ..... NC
W4DTW ST. GEORGE ..... SC
WB4OAH MORRISTOWN ..... TN
NO4Q #WAVERLY ..... TN
KA4VXR HAMPTON .....136.5 VA
WB8NRK PRINCETON .....114.8 WV

147.8400 / 147.2400

AE4JO EMERSON .....103.5 GA
WB4NFG IRWINTON .....77.0 GA
KC4QK ASHLAND .....107.2 KY
W4GZ FARMINGTON .....91.5 KY
KC4AI FRANKFORT .....100.0 KY
KF4TLT HYDEN .....186.2 KY
KG5YV RAYMOND .....136.5 MS
N5ELS TUPELO ..... MS
W2SE CARTHAGE ..... NC
W4SU FOREST CITY .....123.0 NC
W4GHZ FRANKLIN .....151.4 NC
W4IAR HILTON HEAD ..... SC
AC4VT LANCASTER .....88.5 SC
W4LKZ GALLATIN .....114.8 TN
KD4ZTK BOYDTON ..... VA
N4MGQ ELK CRK/IRON MTN.....107.2 VA
K8WGB #GASSAWAY .....123.0 WV

147.8550 / 147.2550

KR4NQ SNELLVILLE .....107.2 GA
AE4PO WAYCROSS .....141.3 GA
N4IOX #DIXON ..... KY
K4CO HIGHLAND HTS. ..... KY
KC5RC LAUREL ..... MS
KJ4AV ASHEBORO ..... NC
WA4KNI HENDSVL/PENIC ..... NC
W4RRC LEESVILLE .....123.0 SC
WA4JA FRANKLIN ..... TN
KJ4SI PETROS/FRZ HD MT..... TN
K4BW ACCOMAC .....156.7 VA
WD4CYZ #CLINCHCO ..... VA
KC8CNL HINTON .....100.0 WV
WA8LLM PARKERSBURG ..... WV

147.8700 / 147.2700

KF4ZUR ALLENHURST ..... GA
W4VIR AMERICUS ..... GA
KF4GHF COVINGTON .....162.2 GA
WB4EJK LOUISVILLE .....151.4 KY
KE4AIE ST. CHARLES ..... KY
WB5USN ABERDEEN ..... MS
K5ZRO VICKSBURG .....100.0 MS
W4CQ CHARLOTTE ..... NC
AK4H RALEIGH/BENSON ..... NC
N4SM WAYNESVILLE ..... NC
W4ANK CHARLESTON AREA ..... SC
WA4JRJ SENECA/LONG MT ..... SC
WA4YQC GALLATIN .....114.8 TN
WB0TMC JACKSON ..... TN
KE4FH JOHNSON CITY ..... TN
WB4IKL GUM SPRING ..... VA
KB4QWO ROANOKE/POOR MT ..... VA
WV8AR SCOTT DEPOT .....123.0 WV

147.8850 / 147.2850

W4PVW ASHBURN/TIFTON .....103.5 GA
KA5WZY ATLANTA ..... GA

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

KC4WWU KINGSLAND .....118.8 GA
KC4ZFH LONDON ..... KY
KA4FGA #MARION ..... KY
N5LJC COLUMBIA ..... MS
KB5TGA CORINTH ..... MS
N4ADM AIKEN ..... SC
N4LV MYB BCH/BRKSVIL ..... SC
W4RCW #WHITE OAK MTN ..... SC
KF4JPT PIKEVILLE ..... TN
KF4KVG MARTINSVILLE .....107.2 VA
KA4ZIP WARSAW ..... VA
W8LG PINEVILLE ..... WV
N8HON SPRUCE KNOB ..... WV
147.9000 / 147.3000
N4ALE COLBERT ..... GA
WB4YSV ROME ..... GA
WR4MG WARNER ROBINS .....107.2 GA
K4ICN ALLEN .....123.0 KY
WA4SJH SPRINGFIELD ..... KY
KA5LNY MAGEE ..... MS
W4YSB JEFFERSON .....103.5 NC
N4JEX KANNAPOLIS .....136.5 NC
W4MZP RED SPRINGS ..... NC
WB4IUY WILSON .....88.5 NC
K4LWS AWENDAW .....103.5 SC
W4CAT GALLATIN .....114.8 TN
W4BBB KNOXVILLE/RACK .....100.0 TN
WA4ADT MEMPHIS .....107.2 TN
KD4ITB FRANKLIN .....131.8 VA
KI4ZN LEXINGTON .....131.8 VA
WB8NSL HARISVL/PENSBRO ..... WV
147.9150 / 147.3150
AD4EQ DOUGLAS ..... GA
W4STJ FORSYTH .....88.5 GA
KC4TX #HODGENVILLE ..... KY
KC4VXR SALEM ..... KY
N5DWU WAYNESBORO ..... MS
KF4HFQ ROLLESVILLE .....88.5 NC
K4MPJ SAURATOWN MT .....100.0 NC
K4PPD SHALLOTTE ..... NC
N4UZT N. SPARTANBURG .....141.3 SC
KD4HZN ROGERSVILLE .....114.8 TN
N4ARK SPARTA .....123.0 TN
AJ4D TELLICO PLAINS .....141.3 TN
K4HWQ GRUNDY ..... VA
147.9300 / 147.3300
W3LAP COCHRAN .....77.0 GA
WB4BXO LAGRANGE ..... GA
K4NLX SAVANNAH ..... GA
KA4DIP TOCCOA ..... GA
WA8KWH ASHLAND ..... KY
KA4CFW BOWLING GREEN ..... KY
WD4KNE #MT. STERLING ..... KY
N4IUI #PROVIDENCE ..... KY
N5EPP PHILADELPHIA ..... MS
W4LPL FAYVLLE/FT BRAGG ..... MS
KN4K LENOIR/HIBRITN .....141.3 NC
WD4ORB MORGAN COUNTY .....82.5 TN
WD4RBJ PULASKI .....100.0 TN
KI4ZR LEXNGTN/ROCK MT ..... VA
147.9450 / 147.3450
N4NEQ ATLANTA/MARIETTA .....118.8 GA
N4PJR JESUP/SCREVEN ..... GA
WD4JZH LEBANON .....151.4 KY
KF4TLT STINETT ..... KY
KG5SF GREENVILLE ..... MS
N5ZMZ UTICA ..... MS
WA4IXW MADISON .....103.5 NC
W4NYR SHELBY ..... NC
KF4DTL SYLVA .....151.4 NC
WA4TEP WASHINGTON ..... NC
KF4CDR ADAMS RUN (CHAS) ..... SC
K4BBN CROSS PLAINS ..... TN
K4PHT DAYTON ..... TN
NM4L ABINGDON .....103.5 VA
N4WAO EASTVILLE .....156.7 VA
W3RUA FRANKLIN ..... WV
NU8K LOGAN/SUMERCO ..... WV
147.9600 / 147.3600
WA4SCR DOUGLASVILLE .....88.5 GA
WA4HZX DUBLIN ..... GA
KQ9Z LOUISVILLE ..... KY
W5CJR HATTIESBURG ..... MS
KC5QGC LOUISVILLE ..... MS
K5SVC NATCHEZ .....100.0 MS
WA4J BOONE/RICH MTN .....103.5 NC
WD4LDB DURHAM ..... NC
W4PET LUMBERTON ..... NC
N4EOY COLUMBIA ..... SC
KA4OAK LAFOLLETTE ..... TN
W4BS MEMPHIS .....107.2 TN
AF4TZ NASHVILLE ..... TN
K4KLX PARIS ..... TN
KA4CBB CHESTERFIELD ..... VA
KB4OLM STUARTS DRAFT ..... VA
N8FWL BECKLEY .....123.0 WV
WV8TC MIDDLEBOURNE .....110.9 WV
K7SOB SKYLINE .....127.3 WV
147.9750 / 147.3750
K4TQU ATHENS/CRAWFRD .....127.3 GA
KB4VAK LAFAYETTE .....77.0 GA
KG4HRN BUCKHORN LAKE .....103.5 KY
KD4YGK CENTER .....151.4 KY
K4CO WALTON ..... KY
KA5VFU GULFPORT ..... MS
KD4WAR BURNSVILLE ..... NC
K4GWH GRAHAM .....114.8 NC
KC4UMO #GREENVILLE ..... NC
KI4CB GEORGETOWN .....179.9 SC
K4LEO #GREENWOOD ..... SC
KN4HL DICKSON ..... TN
W4NRV PEARISBURG .....100.0 VA
W4NV VIRGINIA BEACH ..... VA
WD8LNB GRAFTON .....118.8 WV
147.9800 / 147.3800
WB5NAY PONTOTOC ..... MS
147.9900 / 147.3900
KE4SNT #BLACK ROCK MT ..... GA

W4CJB PEMBROKE ..... GA
W4OHH THOMASTON .....131.8 GA
KE4INT #ARTEMUS .....107.2 KY
WR8CRA COVINGTON ..... KY
KF4TOL CRESTWOOD .....151.4 KY
N8QCW LOUISA .....127.3 KY
KC5QHP FOREST .....100.0 MS
WA4CHZ AQUADALE ..... NC
WB4IJY CLAYTON .....88.5 NC
WA4QBG EDEN/STONEVILLE ..... NC
K4PPD SHALLOTTE ..... NC
N4DTR WAYNESVILLE ..... NC
KA4FEC LEXINGTON ..... SC
KF4L #CLARKSVILLE ..... TN
K4DPD DAYTON/RHEA CTY ..... TN
KQ4E #MORRISTOWN ..... TN
WA4BJY OAKFIELD ..... TN
K4ARO PETERSBURG ..... VA
N8RCG KEYSER .....123.0 WV
WV8D LEWISBURG .....100.0 WV
WD8CYV PARKERSBURG .....141.3 WV

220 MHZ

222.1800 / 223.7800
WD8OHX #LEON ..... WV
222.3000 / 223.9000
WB4SJV HERMITAGE ..... TN
222.3400 / 223.9400
KC4QK ASHLAND ..... KY
W4ZJM MEMPHIS .....*# TN
222.3600 / 223.9600
WR3S SMITHVILLE ..... TN
222.3800 / 223.9800
W4CAT GALLATIN ..... TN
222.4200 / 224.0200
WB4JEH #CONYERS ..... GA
222.4600 / 224.0600
W4NYR SHELBY ..... NC
222.5000 / 224.1000
KA4UHL NANCY .....100.0 KY
W4UWH FRANKLIN .....94.8 NC
WB4YHD FAIRFAX ..... VA
W4CH ROANOKE ..... VA
222.5200 / 224.1200
N4NFP ATLANTA/MARIETTA .....118.8 GA
WM4MD MIDDLESBORO .....82.5 KY
N1BEC BALD CREEK ..... NC
W4GL SUMTER ..... SC
WV8B FLAT TOP/WINTRPL ..... WV
222.5400 / 224.1400
KD4ALC WALESKA ..... GA
W5SAR WAYNESBORO ..... MS
WR4BEG SOPHIS/RANDLEMAN ..... NC
WB4QHF PICKENS/CSRS HD .....131.8 SC
KB4PNG ONEIDA ..... TN
N4HRV CHARLOTTESVILLE .....88.5 VA
WR8M WILLIAMSON ..... WV
222.5600 / 224.1600
KC4JNN BISKEY MTN .....100.0 GA
KN4K LENOIR/HIBRITN ..... NC
WR3S NASHVILLE ..... TN
KF4VED BLUEMTN ..... VA
222.5800 / 224.1800
N4YDX DALLAS ..... GA
KA4NRL CHARLESTON ..... SC
KB8FRI ERWIN .....88.5 TN
WA1ZMS BEDFRD/APL ORCH .....100.0 VA
222.6000 / 224.2000
KC4OVY #ATLANTA-NE .....100.0 GA
WA4US WILMINGTON ..... NC
W4ILY GREENVILLE ..... SC
W4CBX BLOUNTVILLE ..... TN
W4JAS HAMPDEN-SYDNEY ..... VA
WB4GUG STUART .....107.2 VA
222.6200 / 224.2200
N4NEQ ATLANTA/MARIETTA ..... GA
AD4CR VERSAILLES ..... KY
NF4C ROCKY MOUNT ..... NC
KB4FZK KNXVL/CROSS MT .....100.0 TN
KO4BN SPRINGFIELD ..... TN
N3HXT WINCHESTER ..... VA
KC8LRN HILLSBORO .....131.8 WV
222.6400 / 224.2400
N4YYD FT MT/CHATSWTH .....71.9 GA
WA4KNI HENDSVL/BERWLW ..... NC
KE4QOX KVILLE/HIPOINT .....107.2 NC
N8FWL BECKLEY .....123.0 WV
222.6600 / 224.2600
KE4QFG MARIETTA ..... GA
WA4BVW ASHVL/MT PISGAH ..... NC
WR4AGC HILLSBOROUGH ..... NC
N4PYI SHORT MTN. .....114.8 TN
222.6800 / 224.2800
N4BLR ATLANTA ..... GA
AC4RZ PICKENS ..... SC
KA4OAK LAFOLLETTE ..... TN
AB4M LYNCHBURG ..... VA
222.7000 / 224.3000
WA4KM TEMPLE .....100.0 GA
KA4MKT LOUISVILLE ..... KY
N4AI SOMERSET ..... KY
WA4WRS BARIUM SPRINGS ..... NC
KE4CKJ STAUNTON/EL KNOB .....131.8 VA
222.7200 / 224.3200
N4MTA ACWORTH/ATL .....123.0 GA
KA4SQN JACKSONVILLE ..... SC
W4IT PICKENS/SASFR MT ..... SC
KK4US CLEVELAND ..... TN
N4RAG BUCK'S ELBOW .....131.8 VA
222.7400 / 224.3400
W4DOC ATLANTA ..... GA
WW4DC THOMASVILLE .....88.5 NC
WB4GBI KNOXVILLE ..... TN
KM4OI TYSON'SCORNE ..... VA
N8FWL BECKLEY/OAK HILL .....123.0 WV
222.7600 / 224.3600
N4BZJ DALTON ..... GA
WB4PAC #GRIMESLAND ..... NC
WA4TG MARSHALL ..... NC

WR3S LAVERGNE ..... TN
KE4JSV LURAY ..... VA
WB8YST CHARLESTON .....107.2 WV
222.7800 / 224.3800
N4RBT DAHLONEGA .....100.0 GA
WR4AMS META ..... KY
N4OQJ KNOXVILLE .....100.0 TN
WS4W RIDGEWAY ..... VA
222.8000 / 224.4000
KC4AQS JASPER .....100.0 GA
W4BFB CHARLOTTE ..... NC
WB4QHF PICKENS .....131.8 SC
KB4YGI COLLIERVILLE ..... TN
N4RBB MORRISTOWN ..... TN
222.8200 / 224.4200
KD4AOZ WATKINSVILLE .....123.0 GA
AC4AO LEXINGTON ..... KY
W4BS MEMPHIS ..... TN
WD4GSM NORTON/HIGH KNB ..... VA
WB8POC PATRICK SPRINGS .....103.5 VA
WD4KHP BELLKNOB ..... VA
222.8400 / 224.4400
N4NEQ ATL/MARIETTA .....118.8 GA
WB4GUG GREENSBORO .....107.2 NC
KN4CW WEST SPRINGS ..... SC
KC4TFQ #NASHVILLE ..... TN
N2FUV SEVIERVILLE ..... TN
222.8600 / 224.4600
N4BZJ DALTON .....118.8 GA
W4ABP GAINESVILLE ..... GA
KB0Y VALDOSTA .....141.3 GA
KC4ZTJ SHELBY ..... NC
WR3S NASHVILLE ..... TN
222.8800 / 224.4800
KE4IPX NORCROSS ..... GA
W4DEX LOCUST ..... NC
K4ZGA NASHVILLE ..... TN
KD4HZN ROGERSVILLE ..... TN
222.9000 / 224.5000
N4MTA ACWORTH/ATL .....123.0 GA
N4FND SHEPHERDSVILLE .....151.4 KY
N4DRL BYHALIA ..... MS
AD4DN WILMINGTON .....88.5 NC
W4BBB KNOXVILLE/RACK .....100.0 TN
K4RCA MARTINSVILLE ..... VA
222.9200 / 224.5200
KE4AIS PINE LOG MTN ..... GA
WR4AMS DORTON ..... KY
KR4HJ LEXINGTON .....107.2 NC
K4RWN LITTLE MTN ..... SC
222.9400 / 224.5400
N4YEA DALLAS ..... GA
WA4BVW MT MITCHELL ..... NC
N8ITF SPRINGFIELD .....107.2 TN
WA4PVT HAMPTON .....100.0 VA
222.9600 / 224.5600
W4DOC ATLANTA .....146.2 GA
KS4QA LOOKOUT MT ..... GA
KD4RXF LANCASTER ..... KY
WB4YZF FAYETTEVILLE ..... NC
KC4GYM COLUMBIA .....162.2 SC
AC4JF NEWPORT .....100.0 TN
222.9800 / 224.5800
NX9O ALPHARETTA .....100.0 GA
WB4F PIKEVILLE ..... KY
KR4AA ROCKY MOUNT ..... NC
WA4RQF #WALKERTOWN ..... NC
KB4VFD CROSS ..... SC
N4KFI KNOXVILLE .....103.5 TN
223.0000 / 224.6000
W4UWH JASPER .....100.0 GA
WB4PLA ASHEVILLE ..... NC
KC4KUL #THOMASVILLE ..... NC
KD4TZZ MURFREESBORO .....123.0 TN
W4LG LAKE GASTON ..... VA
223.0200 / 224.6200
W4PME ATLANTA/BELL .....100.0 GA
KD4DAR PIKEVILLE ..... KY
KC4IRA GASTONIA .....127.3 NC
KD4JFN HAW RIVER .....107.2 NC
W4UWH GATLINBURG ..... TN
W4GSF GLOUCESTER ..... VA
223.0400 / 224.6400
KS4QA LOOKOUT MT. ..... GA
W4RNC RALEIGH ..... NC
WA4RQF WALKERTOWN ..... NC
KC4SWI COLUMBIA ..... SC
KC4RGQ MORRISTOWN ..... TN
223.0600 / 224.6600
NP2Y YOUNG HARRIS .....100.0 GA
KE4RQL BIG KNB/MARS HIL .....100.0 NC
WA1YYN EFLAND .....107.2 NC
W4VFR SUMTER/SHAW ..... SC
WR3S NASHVILLE ..... TN
223.0800 / 224.6800
N4BZJ DALTON ..... GA
WB4KPF WILMINGTON ..... NC
KA4RCL WAYNESBORO .....131.8 VA
223.1000 / 224.7000
W4TIY DALLAS ..... GA
WB9SZL CLEMMONS .....100.0 NC
KM4TC DUNCAN .....88.5 NC
KD4VUW GALLATIN ..... TN
KD4IBW SEVIERVILLE .....100.0 TN
K4ARO PETERSBURG ..... VA
223.1200 / 224.7200
W4UWH CLAYTON ..... GA
WR4AMS LANGLEY ..... KY
WA4DAN TRENTON ..... NC
223.1400 / 224.7400
N4KVC DALTON ..... GA
KD4WAR BURNSVILLE ..... NC
N4NCK OXFORD ..... NC
N4PYI NASHVILLE .....100.0 TN
KC4JGC NORFOLK .....100.0 VA
223.1600 / 224.7600
W4BOC STONE MT ..... GA
KB7BTU PLYMOUTH ..... NC

W4EXU SALISBURY ..... NC
WQ4E GREENBRIER ..... TN
K4PCK KNOXVILLE ..... TN
WR3S S. PITTSBURG ..... TN
WA4TFZ CHARLOTTESVILLE ..... VA
223.1800 / 224.7800
KC4KLW CEDARTOWN .....179.9 GA
WB5OWY VICKSBURG ..... MS
N4IV EDEN .....103.5 NC
KO4BR ORANGEBURG ..... SC
K4VCM CHATTANOOGA ..... TN
KE4FH JC/BUFFALO MT ..... TN
WA4KOG MEMPHIS ..... TN
W4IY WOODBRIDGE ..... VA
223.2000 / 224.8000
KR4BD LEXINGTON ..... KY
KD4WJD ZEBULON .....88.5 NC
WZ4SC FORT MILL ..... SC
WQ4E GREENBRIAR ..... TN
KD4IBW SEVIERVILLE ..... TN
KC8LRN LEWISBURG ..... WV
223.2200 / 224.8200
KK4C ATLANTA ..... GA
WR4MG HAWKINSVILLE .....107.2 GA
WR4AMS HAZARD ..... KY
N4DWU CANTON ..... NC
KD4LHP KERNERSVILLE .....107.2 NC
223.2400 / 224.8400
W4TL GAINSVILLE .....131.8 GA
WR4MG WARNER ROBINS ..... GA
WA4NC BANNER ELK ..... NC
WA4DAN GRIFTON ..... NC
KC4PRD NASHVILLE ..... TN
N4PLV BEDFORD ..... VA
223.2600 / 224.8600
KC4JNN ALPHARETTA .....100.0 GA
K4NOC BISHOPVILLE ..... SC
KQ4Q PEARISBURG .....103.5 VA
223.2800 / 224.8800
WD4LUQ YORKVILLE .....77.0 GA
N4AI SOMERSET ..... KY
N4DRL WARSAW ..... MS
K4AIH ANDRWS/ROBINSVL ..... NC
K4DQ FANCY GAP .....100.0 VA
223.3000 / 224.9000
W4LMA MARIETTA ..... GA
KE4QIT LAWRENCEBURG .....107.2 KY
N4EQY COLUMBIA ..... SC
WM4T GRAY ..... TN
WD9JGI SWEETWATER ..... TN
AA4HQ DELTAVILLE ..... VA
K4YDG ROANOKE/TINKER ..... VA
223.3200 / 224.9200
W4CSX SNELLVILLE .....100.0 GA
W4NYK GRNVL/DOWNTWN .....88.5 SC
W4LOC SIGNAL MT ..... TN
WA8O BLUEFIELD ..... VA
223.3400 / 224.9400
WB4KXO AUGUSTA ..... GA
KB4GDS WALESKA ..... GA
AD4RU IRVINE ..... KY
N4JJ FLORENCE ..... SC
WB4NKM GREENEVILLE ..... TN
WA4PCD NASHVILLE ..... TN
AB4EM ROA/CAHAS MT ..... VA
223.3600 / 224.9600
PT2RFL ATLANTA/MARIETTA .....100.0 GA
KC4ZTJ CHERRYVILLE ..... NC
W3PS GOLDSBORO .....156.7 NC
N4QVI GREENSBORO ..... NC
N4UQS HENDERSONVILLE ..... NC
WR3S SE NASHVILLE ..... TN
223.3800 / 224.9800
K4JSR CUMMING ..... GA
WR4AMS LONDON ..... KY

440 MHZ

426.0500 / 420.0500
KB4CVN LYNCHBURG .....136.5 VA
434.0000 / 421.2500
W4ZTL ATLANTA/BELL ..... GA
K4NLX SAVANNAH ..... GA
KJ4SO DURHAM TV HILL ..... NC
KO4AT GREENSBORO ..... NC
WD4ATV JOHNSON CITY/BUF ..... TN
WA4GSS HUNTINGTON ..... WV
KB8QHO WHEELING ..... WV
439.2500 / 421.2500
WB4EJ ELIZABETHTOWN ..... KY
W4PPN CHARLOTTE ..... NC
N4GUP LEXINGTON ..... SC
WZ4O SUMTER ..... SC
AF4TZ NASHVILLE ..... TN
N4XND GLOUCESTER ..... VA
W4HTB BOWLING GREEN ..... KY
KA5NOJ GAUTIER ..... MS
N3XA WAYNESBORO ..... VA
WA4VHP SAVANNAH ..... GA
W4NYR #SHELBY ..... NC
438.7750 / 433.0750
WA3KOK CHESTERFIELD ..... VA
438.8000 / 433.2000
WD4ICX FANCY GAP ..... VA
426.2500 / 439.2500
N4FHL ROA/POOR MT ..... VA
446.2500 / 441.2500
NQ4Y #MONTEAGLE MT. ..... TN
446.3500 / 441.3500
KD4DXR #WALESKA ..... GA
WA4USN KNIGHTSVILLE ..... SC
446.4500 / 441.4500
WA4USN MT. PLEASANT ..... SC
446.5250 / 441.5250
N4KJU PAINTSVILLE .....127.3 KY
446.6000 / 441.6000
WA4AYB RICHMOND ..... VA
WA4AYB RICHMOND ..... VA
446.6250 / 441.6250
W4ERT TAYLORSVILLE .....151.4 NC

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

446.7250 / 441.7250
W4ERT TAYLORSVILLE .....151.4 NC
446.7750 / 441.7750
KD4YGK LEBANON JCT .....203.5 KY
446.8000 / 441.8000
KC4YNF ACWORTH .....77.0 GA
446.8750 / 441.8750
KD4TZZ MURFREESBORO .....107.2 TN
446.9000 / 441.9000
WB4GQX CUMMING .....141.3 GA
446.9250 / 441.9250
W4CSX DALLAS .....162.2 GA
446.9500 / 441.9500
KE4OKD SANDY SPRINGS .....103.5 GA
447.0000 / 442.0000
WB6RTH ALPHARETTA .....107.2 GA
N4ORL LOUISVILLE KY
KC4IEV GAFFNEY .....114.8 SC
WB4NNX HOHENWALD TN
KF4BTL MARYVILLE TN
W4LG GASBURG VA
WB3T WYTHE/WALKER MT .....103.5 VA
447.0250 / 442.0250
W4CML ATLANTA .....127.3 GA
K4SCS RALEIGH .....156.5 NC
447.0500 / 442.0500
N1KDO MARIETTA .....107.2 GA
KD4ADJ LEXINGTON KY
WA1YYN EFLAND .....107.2 NC
KD4XV JASPER .....127.3 TN
WB4SQC JOHNSON CITY/HOL.....100.0 TN
WA4BJY MEDINA TN
447.0250 / 442.0750
W8BLA ROSWELL GA
447.0750 / 442.0750
N4VOS STANTON KY
KD4PBS APEX .....114.8 NC
K4JLA COLUMBUS .....103.5 NC
N4JDW WILMINGTON .....88.5 NC
KJ4BJ DAYTON TN
KF4UCI CHARLOTTESVILLE .....151.4 VA
447.1000 / 442.1000
K4HUM NORCROSS GA
N4RBL LOUISVILLE AREA KY
N4IV WENTWORTH .....103.5 NC
K4USC UNION SC
KF4TNP LEWISBURG .....107.2 TN
WD4PAX MILAN TN
447.1250 / 442.1250
KD4GRU DALTON GA
KG4IWI HENDERSON .....88.5 NC
WR4PKZ PICKENS SC
KB4YFV HILLSVILLE .....103.5 VA
447.1500 / 442.1500
N4SE ROSWELL/BELL .....100.0 GA
KD4RTR DORTON .....167.9 KY
W4UNC CHAPEL HILL .....131.8 NC
WJ9J CHATTANOOGA TN
KA4BNI DRESDEN TN
WD4RBJ PULASKI .....118.8 TN
KD4SUU CHESTERFIELD VA
447.1750 / 442.1750
N4BZJ DALTON .....118.8 GA
K4NGQ FRANKFORT .....67.0 KY
N4LWK ROXBORO .....156.7 NC
WA4US WILMINGTON NC
W4GMM MEMPHIS .....107.2 TN
447.2000 / 442.2000
KF4SKT BLAIRSVILLE GA
N3APR DECATUR GA
N5DWU ELLISVILLE .....167.9 MS
WA4US WILMINGTON NC
N7GZT ORANGEBURG SC
KD4YUX BETHPAGE .....107.2 TN
WM4T GRAY .....100.0 TN
WA4BJY OAKFIELD TN
N4IFC LYNCHBURG/T.ROW .....103.5 VA
447.2250 / 442.2250
WB6RTH #ATLANTA .....107.2 GA
WJ9J RCKWOOD/OZONE TN
NO4Q WAVERLY .....110.9 TN
WB4GUG STUART .....107.2 VA
447.2500 / 442.2500
N5DWU ELLISVILLE .....167.9 MS
KB4PQA GREENVILLE SC
WD4DES CLEVELAND .....118.8 TN
WA4HTI COVINGTON VA
447.2750 / 442.2750
K4DDH MACON .....100.0 GA
N4ZCM AUBURN NC
KO4NTZ LEXINGTON NC
KF4CFO ETOWAH .....141.3 TN
KE4PFW HENDERSON TN
447.3000 / 442.3000
KW4KW RINGGOLD .....118.8 GA
KC4QPR MORG/WALKER TOP .....94.8 NC
WB4IUY ZEBULON .....88.5 NC
KC4ED SUMMERVILLE SC
WA4LCE COOKEVILLE .....107.2 TN
KC4VDZ RICHMOND .....114.8 VA
447.3250 / 442.3250
W4JLG MABLETON GA
K4JBV INDEPENDENCE .....100 KY
WM4MD MIDDLESBORO .....67.0 KY
WD4ICX ASHEBORO NC
447.3500 / 442.3500
WD4NHW BALDWIN GA
KD4TAH RUSSELLVILLE .....136.5 KY
KF5TU LAKE GASTON .....100.H NC
WA4YGD LINCOLNTON NC
447.3750 / 442.3750
KE4QFG MARIETTA GA
KE4YRE SHELBYVILLE KY
WA4PXV HICKORY NC
447.4000 / 442.4000
N4UER WARM SPRINGS GA
KF4JJD GARRETT .....79.7 KY
AA4XV LATONIA KY
KD4WJD ZEBULON NC
WB4QHF PICKENS/CSRS HD .....127.3 SC
KF4YI LYNCHBG/JACK MT.....107.2 VA
447.4250 / 442.4250
W4HCA CLARKESVILLE GA
KC4FIE MADISONVILLE KY
K4AE LEXINGTON .....107.2 NC
AF4ZJ CHAT/WALDEN TN
447.4500 / 442.4500
W4CML SNELLVILLE GA
KD4CLR LOUISVILLE AREA .....151.4 KY
WA4TOG HENDERSONVILLE NC
K4LMR RALEIGH NC
KD4NEB CLEVELAND .....88.5 TN
WA3KOK CHESTERFIELD .....107.2 VA
447.4750 / 442.4750
K4NVG LAVONIA .....203.5 GA
KS4QA LOOKOUT MT. .....67.0 GA
KE4DGP WILKESBORO .....107.2 NC
AG4AN FOREST VA
447.5000 / 442.5000
AB4KN PEACHTREE CITY .....77.0 GA
KE4PMP VIDALIA .....88.5 GA
KB4RYM LOUISVILLE KY
K4GFY MOREHEAD KY
KG4JIA CHERRY MTN .....94.8 NC
K4YNY WILMINGTON .....88.5 NC
WB4HAP KNOXVILLE .....103.5 TN
W4CA ROANOKE/POOR MT .... VA
447.5250 / 442.5250
KY4JD FORT WRIGHT .....123.0 KY
WB3T WYTHEVILLE .....103.5 VA
447.5500 / 442.5500
WB4JEH CONYERS .....151.4 GA
WD4ELX LOUISVILLE KY
WA4TOG ASHEVILLE NC
K1BUD PITTSBORO NC
W4RAT RICHMOND .....127.3 VA
447.5750 / 442.5750
WA4BPY CUMMING .....79.9 GA
AE4LW MADISONVILLE .....100.0 KY
W4MLU RALEIGH .....156.7 NC
KU4MC WINSTON-SALEM .....146.2 NC
WB4IVB JONESVILLE .....100.0 VA
447.6000 / 442.6000
KD4FOC DUBLIN .....77.0 GA
WA4OKJ MARIETTA .....100.0 GA
KD4ADJ MT STERLING KY
WD4NWV ANDRWS/ROBINSVL .....151.4 NC
N8ITF SPRINGFIELD .....107.2 TN
K4ARO PETERSBURG VA
K4ARO ROANOKE VA
447.6250 / 442.6250
WA4BP GAINESVILLE .....131.8 GA
KE4KIV NEWTON NC
WB4EPG MEMPHIS TN
447.6500 / 442.6500
KE4FHN DANIELSVILLE GA
W4LOC LOOKOUT MTN .....100.0 GA
KD4GEU ASHEVILLE NC
WA1ZEG BEDFRD/APL ORCH .....100.0 VA
447.6750 / 442.6750
KE4PVE ATLANTA .....100.0 GA
KD4BOH ROCKPORT .....77.0 KY
N6CLU CONCORD .....103.5 NC
NC4SU RALEIGH .....100.0 NC
WA4MPZ #BLUFFTON SC
447.7000 / 442.7000
KC4QGN ELLIJAY .....77.0 GA
K4NLX SAVANNAH GA
WA4PZN SHELBYVILLE TN
W7CP ROANOKE VA
447.7250 / 442.7250
KE4QFG MARIETTA/ATL GA
KB4YJ LOUISVILLE .....151.4 KY
N5LRQ VOSSBURG .....167.9 MS
W4GLB SIMPSONVILLE SC
W4RDM COLUMBIA TN
KE4MBR DECATUR .....141.3 WV
KB8PCW GILBERT WV
447.7500 / 442.7500
N3DAB JASPER .....141.3 GA
WD4KZK ROANOKE/MILL MT .....107.2 VA
447.7750 / 442.7750
K4VJM FLOWERY BRANCH GA
KC4FIE MADISONVILLE KY
KF4CDR CHARLESTON SC
AE4PZ MOUNTAIN REST .....127.3 SC
KE4CIF PULASKI VA
447.8000 / 442.8000
N4NFP ATL/MARIETTA GA
N4AAD YADKINVILLE .....100.0 NC
WD4LUR LAKE CITY .....100.0 TN
KB4MIC SUM SPRING VA
447.8250 / 442.8250
W1CP CLAYTON .....162.2 GA
KC4ENL HAPEVILLE .....167.9 GA
WA1YYN SAURATOWN MT .....131.8 NC
WF4G MEMPHIS TN
KT4PN ONEIDA TN
447.8500 / 442.8500
WB0QGH LAWRENCEVILLE .....82.5 GA
W2HR GILBERTSVILLE .....103.5 KY
AG4AZ BREVARD NC
KA4IXK ROA/POOR MT VA
WB8NSL PENNSBORO .....103.5 WV
447.8750 / 442.8750
PT2RFL ATLANTA/MARIETTA .....100.0 GA
W4EFW MACON .....114.8 GA
W4GSO GREENSBORO .....88.5 NC
KD4DMS SPIVEY'S CORNER NC
KC4WHL HARRIMAN .....136.5 TN
KF4OCK LORETTO .....203.5 TN
447.9000 / 442.9000
K3TD BUFORD .....103.5 GA
WR4MG WARNER ROBINS GA
W4CMR IRVINE KY
WW4DC THOMASVILLE .....88.5 NC
N4WT CHATT/HIXSON .....TN
KE4CES JACKSON .....114.8 TN
W4MT NEWPORT NEWS .....100.0 VA
447.9250 / 442.9250
KC4YHM EATONTON GA
K4CH LEXINGTON .....107.2 NC
WD4OAR GEORGETOWN .....107.2 TN
KB8QKM CHARLESTON .....71.9 WV
447.9500 / 442.9500
AA4AI ATHENS .....179.9 GA
N4XGI ST SIMONS ISLAND .....131.8 GA
W4ERT TAYLORSVILLE .....151.4 NC
AB4FU LYNCHBURG VA
447.9750 / 442.9750
WA4YNZ ATLANTA GA
WA4YNZ #ROSWELL GA
KF4DAR KERNERSVILLE .....107.2 NC
NK4W LITTLE MT .....162.2 SC
KB8KSP ABINGDON .....100.0 VA
448.0000 / 443.0000
W4DRC CHATSWORTH GA
KT4GB BARDSTOWN KY
KI4RK PIKEVILLE NC
N4EOY COLUMBIA SC
W4ZJM MEMPHIS .....* TN
KM4X WHITETOP MTN .....103.5 VA
WB8EZR HUNTINGTON WV
448.0250 / 443.0250
W4CML ATLANTA .....127.3 GA
KD4IEZ DUBLIN .....156.7 GA
KE4OOL LEXINGTON .....123.0 KY
WB4IKY GIBSONVILLE .....107.2 NC
N4UAG KNOXVILLE TN
KA8YEZ WHEELING .....77.0H WV
448.0500 / 443.0500
NE1H SNELLVILLE GA
W3PS GOLDSBORO .....156.7 NC
WB4PUB #NASHVILLE .....107.2 TN
N8FWL BECKLEY .....123.0 WV
448.0750 / 443.0750
KC4ZIZ #MACON .....156.7 GA
WR4BEG SOPHIA/RANDLEMAN NC
KA4AZQ KNOXVILLE .....100.0 TN
448.1000 / 443.1000
N4KHQ DAHLONEGA .....100 GA
K4WJS OWENSBORO KY
KE4QOX SAURATOWN MT .....88.5 NC
KA4JXT MEMPHIS .....107.2 TN
KN4YM POWHATAN VA
KE4QOX BECKLY/OAK HILL .....107.2 WV
448.1250 / 443.1250
KU4ML FOSTER KY
KB4PQA CRAB CREEK TWP NC
WA4NNA RALEIGH NC
KT4OL CHATTANOOGA TN
KT4OL CHATTANOOGA TN
KC4PRD GOODLETTSVILLE .....107.2 TN
KA4JXT HICKORY VALLEY .....107.2 TN
KA4JXT MEMPHIS TN
WB3T MARION .....103.5 VA
448.1500 / 443.1500
KF4XH BYRON GA
W4PME ROSWELL/BELL .....100.0 GA
W4HG SALISBURY NC
K8MHR ST. ALBANS WV
448.1750 / 443.1750
N4GIS CARTERSVILLE GA
KC4COV FLORENCE KY
KD4HLH LAURENS .....146.2 SC
KF4TNP MT PLEASANT .....107.2 TN
WB8POC PATRICK SPRINGS VA
448.2000 / 443.2000
K4YC IVEY .....88.5 GA
KD4APP PINE LOG MTN GA
W4DEX #STANFIELD NC
KD2LH YOUNGSVILLE .....88.5 NC
W4WC GRNVLE/VIKING MT.....100.0 TN
W4BS MEMPHIS .....107.2 TN
KJ4VMK AMELIA VA
448.2250 / 443.2250
N4QCP JONESBORO GA
KD4TAH FRANKLIN KY
KS4TO WADDY KY
N4ZCM RALEIGH NC
W8LG BECKLEY/BOLT WV
448.2500 / 443.2500
KC4JNN #BISKEY MTN .....100.0 GA
KJ4VF DORTON KY
N4JEX CHINA GROVE .....136.5 NC
448.2750 / 443.2750
KC4KLW ROCKMART .....179.9 GA
KF4TLA ASHEVILLE .....103.5 NC
WA4WTX ROUGEMNT/RED MT .....100.0 NC
WA4AWI LEBANON .....107.2 TN
448.3000 / 443.3000
WB4VNT ATHENS GA
KB5DZJ WIGGINS .....167.9 MS
KC4KUL ARCHDALE NC
KB4TOH COLUMBIA .....131.8 NC
KC4IEV SPINDALE .....123.0 NC
KA7UEC COLLIERVILLE .....107.2 TN
WA4KJH GATLBG/COVE MT .....127.3 TN
448.3250 / 443.3250
N4JMS STOCKBRIDGE GA
WA4CMO FRANKFORT KY
KF4IXK KERNERSVILLE .....131.8 NC
WB3T BLUEFIELD/ONEIDA.....103.5 VA
448.3500 / 443.3500
N4YYD FT. MT/CHATSWTH .....71.9 GA
K4ULW LOUISVILLE SW KY
W5CJR PETAL MS
N4JEX KANNAPOLIS .....136.5 NC
ND4N GRNVLE/PARIS MT SC
WA4AWI DEASON .....107.2 TN
K4GX ROGERSVILLE TN
448.3750 / 443.3750
KC4AQS JASPER .....100.0 GA
W1IFL RALEIGH NC
KF4ZIG INDEPENDENCE .....103.5 VA
448.4000 / 443.4000
WB4GWA CONCORD .....118.8 GA
N0SU BRYSON CITY .....151.4 NC
WB4GUG SAURATOWN MT .....107.2 NC
AD4DN WILMINGTON .....88.5 NC
AC4WW AIKEN .....107.2 SC
WD4DBJ CUMBERLAND CITY TN
WA4QWW MEMPHIS TN
448.4250 / 443.4250
KD4CPO BRUNSWICK GA
KB4MDE JASPER GA
KD4EYB DRY RIDGE .....100.0 KY
KD4RTR MILLARD KY
WA1YYN RES. TRIANGLE PK.....156.7 NC
448.4500 / 443.4500
KB4VAK HIGH PT/LOOKT MT .....77.0 GA
AE4NU COX'S CREEK .....151.4 KY
KC5LCW GAUTIER .....123.0 MS
N5WXD WEST POINT MS
N4VOZ STATESVILLE NC
KC4RBA LYNCHBURG .....186.2 VA
448.4750 / 443.4750
W4EEE BOGART GA
KC4COV FLORENCE .....192.8 KY
KE4UIU CANTON .....156.7 NC
W4UNC CHAPEL HILL .....131.8 NC
WZ4SC FORT MILL SC
KB8YDD RICHWOOD WV
448.5000 / 443.5000
N4MTA MARIETTA GA
WD9EQC LOUISVILLE KY
KF4BRO MAYSVILLE .....123.0 KY
WB4UBY META KY
W5SAR WAYNESBORO MS
AB4JJ WEST JEFFERSON .....107.2 NC
N5CWH GILBERT .....162.2 SC
KD4CWB KNOXVILLE TN
448.5250 / 443.5250
N4PQR KNOXVILLE .....114.8 GA
KC4KLW ROME .....179.9 GA
N4EUX LENOIR/CAJAH MT NC
KD4MJO SOUTH HILL .....100.0 VA
448.5500 / 443.5500
KK4IN DACULA GA
KE4WLP GRIFFIN GA
N4HZX GRAEFENBURG KY
W5SAR WAYNESBORO MS
KC4XE ROARING GAP NC
WB4LRD CHATTANOOGA TN
N3ELM YORKTOWN .....100.0 VA
448.5750 / 443.5750
KD4NTF CEDARTOWN .....107.2 GA
WA4PXV AIR BELLOWS GAP NC
KA6UHV COLLEGEDALE TN
W4LYR LEBANON .....100.0 TN
KC8AUY RICHWOOD WV
448.6000 / 443.6000
KA5WZY ATLANTA GA
KA4UHL NANCY .....100.0 KY
K5HYE MENDENHALL MS
N4DWU MT MITCHELL NC
W4TLB BIG SANDY .....114.8 TN
W8CXD FOREST .....136.5 VA
448.6250 / 443.6250
K4MDS GRAY GA
KF4OYP JASPER .....100.0 GA
KF4NTQ GEORGETOWN KY
AA5RZ JACKSON, EAST MS
W4EUS RTP NC
KE4EAN COWPENS .....136.5 SC
KA7UEC COLLIERVILLE .....107.2 TN
AD4QG EVA TN
KC4MJN JAMESTOWN .....100.0 TN
WZ8E BLUEFIELD .....100.0 WV
448.6500 / 443.6500
KE4ZV ATLANTA .....100 GA
KC5BMJ SHELLMAN BLUFF .....118.8 GA
N4WJS OWENSBORO .....203.5 KY
K4AIH ANDRWS/ROBINSVL NC
KD4WAR BURNSVILLE NC
KG4BTN GREENSBORO .....88.5 NC
WA4AXH NOLENSVILLE TN
K4UMI HAMPTON VA
448.6750 / 443.6750
N4GWO BARNESVILLE GA
KD4FRP CROWDER'S MT NC
AD4LR PARIS TN
KD4IBW SEVIERVILLE .....100.0 TN
K4YD VINTON .....107.2 VA
448.7000 / 443.7000
W4TIY DALLAS GA
KY4KY BROOKS .....151.4 KY
W5CJR HATTIESBURG .....136.5 MS
KE4QOX KVILLE/H POINT .....103.5 NC
WA4LBT LOCUST NC
NA4JEH ROCKY MOUNT .....107.2 NC
K4VVM BARTLETT .....107.2 TN
KB4OTK LAFOLLETTE TN
KB8UJG PRINCETON .....123.0 WV
448.7250 / 443.7250
KB2DZA CONYERS .....77.0 GA
KE5LT PICAYUNE .....179.9 MS
KG4WH GRAHAM .....156.7 NC
KB5YJC NASHVILLE .....107.2 TN
N8SNY WELCH WV
448.7500 / 443.7500
K4GO COVINGTON .....146.2 GA
KC4ZTI GASTONIA/CRWDR NC
WB4EDS ALAMO TN
WA4OHX HAMPTON .....100.0 VA
KC3FB PATRICK SPRINGS .....77.0 VA
448.7750 / 443.7750
W4IXN DULUTH .....82.5 GA
KF4INN VERSAILLES KY
WB4SRV CLAREMONT .....118.8 NC
KD4JFN HAW RIVER .....107.2 NC
KF4Y LAURENS .....141.3 SC

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

KA4MHJ SPENCER .....123.0 TN
448.8000 / 443.8000
N4NFP ATLANTA/MARIETTA .....118.8 GA
K4MSU MURRAY .....114.8 KY
N5IAT NATCHEZ ..... MS
KC4QZL MORGANTON ..... NC
W4HNK SUMMERVILLE ..... SC
KA4AZQ KNOXVILLE .....100.0 TN
WA1ZMS BEDFRD/APL ORCH .....100.0 VA
W4POX PORTSMOUTH ..... VA
KA8OTX OAK HILL ..... WV
448.8250 / 443.8250
KD4EVB FALMOUTH .....118.8 KY
N5ZNS GLOSTER ..... MS
KC4RM SHELBYVILLE ..... TN
KF4RMT BASSETT .....107.2 VA
WB4KZI PETERSBURG ..... VA
448.8500 / 443.8500
K4PLM #WALESKA .....192.8 GA
KC4YOZ DALLAS/CLT .....100.0 NC
WA4US WILMINGTON ..... NC
KE4OVN DRESDEN .....107.2 TN
N4ULM FRANKLIN ..... TN
KQ4I DANVILLE ..... VA
KB8TGK HUNTINGTON .....88.5 WV
448.8750 / 443.8750
KD4LXT ATLANTA ..... GA
KC4KPW PINEY KNOB .....103.5 NC
KD4KPV MCKENZIE ..... TN
W4DUM WILLIS ..... VA
W8SP FAIRMONT ..... WV
448.9000 / 443.9000
K4RHJ FLOWERY BRANCH .....100.0 GA
KC4KZT DAVID .....167.9 KY
W4UA HIGH POINT ..... NC
W4GWD GREENWOOD .....107.2 SC
KD4HII CHATTANOOGA ..... TN
W4KOC WHITE HOUSE .....107.2 TN
N4EVG CHESAPEAKE ..... VA
448.9250 / 443.9250
KQ4XL MONROE .....123.0 GA
WA4BAB RINGWOLD ..... GA
N4EQT LAWRENCEBURG .....107.2 KY
KE4KNZ MCEWEN ..... TN
KF4RBR MOUNTAIN CITY .....103.5 TN
KF4AGO SOUTH BOSTON ..... VA
448.9500 / 443.9500
KA4UFM DECATUR .....110.9 GA
KC4TX CANE VALLEY ..... KY
N5ZDF HAZLEHURST .....100.0 MS
KD4OWV CHARLOTTE ..... NC
WA1YYN HILLSBOROUGH .....114.8 NC
WA4US WILMINGTON ..... NC
KC4FV ARNOLD A.F.B. ..... TN
KD4OBX KNOXVILLE ..... TN
N4ER MEMPHIS ..... TN
448.9750 / 443.9750
KB4NPO REX ..... GA
K4TDO HAZARD .....103.5 KY
WA4WGY MAYODAN ..... NC
N4VDE LIBERTY .....103.5 SC
WR3S LAVERGNE ..... TN
KA4WJS ROCKWOOD ..... TN
N8FIP WESTON ..... WV
449.0000 / 444.0000
WB4QDX LAWRENCEVILLE .....100.0 GA
WD4AFY #SAVANNAH ..... GA
AD4RU IRVINE ..... KY
KG5YV CLINTON .....100.0 MS
K4JEQ HICKORY ..... NC
KI4RK SELMA ..... NC
N0YNV BLYTHEWOOD ..... SC
W4ULH FLORENCE ..... SC
WD4BKY GALLATIN .....107.2 TN
KD4CWB KNOXVILLE .....100.0 TN
W4CAR CHESAPEAKE .....162.2 VA
KC8IT MULLENS ..... WV
449.0250 / 444.0250
W4CML LAWRENCEVILLE .....127.3 GA
AE4PO WAYCROSS .....141.3 GA
KD4JFN HIGH POINT .....107.2 NC
KC4WHL HARRIMAN ..... TN
WR4DK MEMPHIS ..... TN
449.0500 / 444.0500
N4NEQ ATL/MARIETTA .....118.8 GA
KE4NLL SALYERSVILLE .....127.3 KY
KB4PTJ WILLIAMSBURG .....100.0 KY
N4PYI NASHVILLE .....107.2 TN
WB3T FANCY GAP .....103.5 VA
KB4OLM STUARTS DRAFT ..... VA
449.0750 / 444.0750
AE4GU CARROLLTON .....107.2 GA
KB8SBN INDEPENDENCE .....110.9 KY
KD4BOH ROCKPORT .....77.0 KY
K4CCR ANDSN MT/DENVER .....88.5 NC
KF4TNP LEWISBURG .....107.2 TN
KC4PDQ MARYVILLE .....100.0 TN
KF4ATY MEMPHIS .....107.2 TN
KD4TBC GRETNA/SMITH MT .....123.0 VA
K8OJC HURRICANE ..... WV
449.1000 / 444.1000
W4BKM MACON ..... GA
W4WSM BOWLING GREEN ..... KY
N4UL LOUISVILLE .....173.8 KY
KB5BRZ MERIDIAN .....131.8 MS
WR4AGC DURHAM ..... NC
KC4AF LANCASTER ..... SC
W4AM CHATTANOOGA ..... TN
KE4FH JOHNSON CITY ..... TN
KA4JXT MEMPHIS ..... TN
KE4CKJ STAUNTON/EL KNOB .....131.8 VA
KB4ZIN WILLIAMSBURG ..... VA
N8ILO PARKERSBURG (OH) ..... WV
449.1250 / 444.1250
KE4FVE PENDERGRASS .....100.0 GA
KC4ZY LEXINGTON ..... KY
WB4GUG MCLEANSVILLE ..... NC
KC4ECD LAFAYETTE .....107.2 TN

KA4JXT MEMPHIS ..... TN
N8LVE BECKLEY ..... WV
N8RCG KEYSER .....103.5 WV
449.1500 / 444.1500
W4PME ATLANTA/BELL .....100.0 GA
KD4YGK LEBANON JCT .....203.5 KY
WB4IVB MIDDLESBORO .....100.0 KY
WD5BJT CLERMONT HARBR ..... MS
WB5YCR NEW ALBANY ..... MS
K4JDR CLAYTON .....100.0 NC
AG4EI GASTONIA/CRWDR ..... NC
W4GL SUMTER .....123.0 SC
AF4TZ NASHVILLE .....107.2 TN
KE4LQY SIGNAL MT. ..... TN
KI4ZR LEXNGTN/ROCK MT. ..... VA
449.1750 / 444.1750
KE4PVE COVINGTON .....100.0 GA
KC4QOV FLORENCE .....192.8 KY
W4FBC LILLINGTON .....118.8 NC
W2GLJ GERMANTOWN ..... TN
KC4NNN KNOXVILLE ..... TN
WD4ICX FANCY GAP .....107.2 VA
N8FMD CLARKSBURG .....103.5 WV
449.2000 / 444.2000
WA4DB #GAINSVILLE .....107.2 GA
KR4PZ MARION .....100.0 KY
KD4RTR PIKEVILLE ..... KY
WB4YNF AHOSKIE ..... NC
KE4QEA #KING/SAURATOWN .....100.0 NC
WA4US WILMINGTON ..... NC
KF4GHC COLUMBIA .....156.7 SC
KD4HII CHATTANOOGA ..... TN
N4ARK NASHVILLE ..... TN
WB4VWR ENNIS ..... TX
N8ZVK FLATWOODS ..... WV
449.2250 / 444.2250
KE4SJO WOODSTOCK ..... GA
K4GWH GREENSBORO .....146.2 NC
N4ARK NASHVILLE .....114.8 TN
WV8AR CHARLESTON .....123.0 WV
449.2500 / 444.2500
W4BOO DECATUR ..... GA
KF4DC GLASGOW/CVCTY ..... KY
WA4KNI HENDSVL/BERWLW ..... NC
N4EWS LOUISBURG .....88.5 NC
K4SER WILLIAMSTON .....131.8 NC
WA4PAJ BARTLETT ..... TN
WQ4E GREENBRIER ..... TN
WA4TFZ CHARLOTTESVILLE .....151.4 VA
WG4R MEADOWS OF DAN .....103.5 VA
N8ZAR BUCKHANNON ..... WV
449.2750 / 444.2750
K4JLG CORNELIA .....100.0 GA
KE4BB CULLODEN .....123.0 GA
KF4IFC CORBIN .....79.7 KY
KU4MJ DAWSON SPRINGS ..... KY
W4NC WINSTON-SALEM ..... NC
W4GZX CLEVELAND ..... TN
WA4AXH LEBANON ..... TN
W4RDF ENON .....114.8 VA
KC8CSE DUNMORE .....123.0 WV
449.3000 / 444.3000
KC4GZX #ATHENS/CRAWFORD...127.3 GA
KC4YNY HOGANSVILLE ..... GA
WB4ZZD #LOUISVILLE .....156.7 KY
N4DRL BYHALIA ..... MS
KC5RC HEIDELBERG .....100.0 MS
KD4JYV ASHEBORO .....118.8 NC
WA4VTX ELIZABETH CITY .....131.8 NC
N4MNH CHARLESTON ..... SC
WB4GBI KNOXVILLE ..... TN
WA4BZU NASHVILLE .....107.2 TN
K4BW ACWORTH .....156.7 VA
KI4ZR LEXINGTON ..... VA
449.3250 / 444.3250
KF4BMG MARIETTA .....79.7 GA
WA4QFV WHITAKER MTN ..... NC
WA4BZU CLARKSVILLE .....107.2 TN
KB4KSL KNOXVILLE ..... TN
WB3T ROANOKE .....103.5 VA
KA8ZXP GLENVILLE ..... WV
449.3500 / 444.3500
KE4PVE NEWNAN .....100.0 GA
WR4SG VALDOSTA .....141.3 GA
K4CO WALTON ..... KY
WB4IKY GIBSONVILLE .....107.2 NC
KR4LO GRANTSBORO ..... NC
WD4BKY GALLATIN .....114.8 TN
KD4CLA PIGEON FORGE .....156.7 TN
N4CH BEDFORD ..... VA
WB8YST CHARLESTON .....107.2 WV
449.3750 / 444.3750
KB4IZF JASPER .....103.5 GA
KD4DAR PIKEVILLE ..... KY
KB5HAV PEARL .....88.5 MS
N4DTR FRANKLIN .....131.8 NC
KB4WGA HENDERSON .....156.7 NC
KB4YTM HUNTINGDON ..... TN
KR4ST SPARTA .....123.0 TN
N4OWU FANCY GAP .....107.2 VA
449.4000 / 444.4000
WB4ULJ HAMILTON ..... GA
WB0QGH HOG MTN .....82.5 GA
KD4YGK SHEPHERDSVILLE .....203.5 KY
KC4COV WILDER .....131.8 KY
WB4YZF FAYETTEVILLE .....100HZ NC
KC4YOQ FOREST CITY ..... NC
WA4KOG MEMPHIS ..... TN
N4PYI MT JULIET ..... TN
K4EAJ OAK RIDGE .....82.5 TN
N8LUF ALDERSON/SAM BLK .....100.0 WV
449.4250 / 444.4250
WB4JWM JULIETTE .....156.7 GA
KC4COV JONESVILLE .....118.8 KY
KF4QZN MORGANTOWN .....179.9 KY
N4ZVN MONROE .....94.8 NC
KC4NNN KNOXVILLE ..... TN
WA4ISI ALTAVISTA ..... VA
KB8TJH SHIRLEY ..... WV
449.4500 / 444.4500
W4DOC ATLANTA .....146.2 GA
KO4OT SIMPSONVILLE .....100.0 KY

KD5AHI ABERDEEN ..... MS
KB5LCL JACKSON .....141.3 MS
W4CQ CHARLOTTE ..... NC
WR4AGC HILLSBOROUGH .....100.0 NC
N4DTR WAYNESVILLE ..... NC
WA4UJC WILMINGTON ..... NC
W4CAT GALLATIN .....107.2 TN
WJ9J SODDY DAISY ..... TN
W8MOP BLUEFIELD ..... VA
449.4750 / 444.4750
KD4GEY FOLKSTON ..... GA
N4CLA SWEAT MT/MARIETT ..... GA
KF4QZN MAMMOTH CAVE .....179.9 KY
AD4BI PIKEVILLE ..... KY
KG4BTN GREENSBORO .....107.2 NC
N4ZKR SUMMITVILLE .....107.2 TN
AD4ZK NORFOLK ..... VA
449.5000 / 444.5000
W4MM ALBANY ..... GA
WB5TUF ATLANTA ..... GA
N4BZJ DALTON .....118.8 GA
W5LRG MERIDIAN .....107.2 MS
WD4ICX LEXINGTON ..... NC
N4JEH TARBORO .....100.0 NC
K4NOC BISHOPVILLE .....123.0 SC
K4JP BRSTL/HOLSTN MT ..... TN
N4WAH MEMPHIS ..... TN
K4CQ LYNCHBRG/TOB MT .....136.5 VA
449.5250 / 444.5250
KD4IEZ CHESTER .....156.7 GA
W4GPI SNELLVILLE .....82.5 GA
KJ4VF GRETHEL ..... KY
N5NNI NEW HEBRON ..... MS
W4RNC RALEIGH .....88.5 NC
WA4ZRS WAXHAW .....94.8 NC
N4LV MYB BCH/BRKSVIL ..... SC
KD4IBW KNOXVILLE .....100.0 TN
WA4BGK NASHVILLE .....107.2 TN
449.5500 / 444.5500
WB4JEH CONYERS .....151.4 GA
K4DC LEWISPORT ..... KY
KC4DUU LEXINGTON ..... KY
W4GAS GASTONIA/SPCR MT ..... NC
KA4BQM ROANOKE RAPIDS .....192.8 NC
NQ4Y COOKEVILLE .....107.2 TN
KF4SCT MCNAIRY .....107.2 TN
WA4PSQ NASHVILLE ..... TN
KB4WTP COPPER RIDGE .....103.5 VA
W4QR HAMPTON .....167.9 VA
W4WWQ LYNCHBURG .....136.5 VA
449.5750 / 444.5750
W4SCR DOUGLASVILLE .....88.5 GA
N4MVY PHELPS ..... KY
KC5CLM PORT GIBSON .....141.3 MS
N4HAJ KINSTON .....88.5 NC
K2PJ MYRTLE BEACH .....85.4 SC
W4BBB KNOXVILLE/RACK .....100.0 TN
WA4WCK NASHVILLE ..... TN
449.6000 / 444.6000
W4PSZ FAYETTEVILLE ..... GA
WA4NKL QUITMAN .....127.3 GA
KF4WMM BRUSHY FORK .....88.5 KY
N4NMC LOUISVILLE .....151.4 KY
KC4FIE MADISONVILLE ..... KY
WA4SJH SPRINGFIELD ..... KY
KB5CO JACKSON .....100.0 MS
W4BFB CHARLOTTE .....100.0 NC
KG4WXA OXFORD ..... NC
KT4YW NO. CHARLESTON ..... SC
WB4HAP KNOX/ENGLSH MT ..... TN
WA4AUX PROSPECT .....118.8 TN
KB4OIK WILTON ..... WV
449.6250 / 444.6250
K4EDN BONAIRE .....82.5 GA
W4CBA CUMMING .....123.0 GA
KC5BAL KINGSLAND .....118.8 GA
W1BPP MOULTRIE .....123.0 GA
KB4QFL HAWESVILLE ..... KY
KE4ISW RICHMOND .....192.8 KY
AB5MU NETTLETON .....192.8 MS
N5OCI RICHTON ..... MS
WB4DVN LUMBERTON ..... NC
WD4EOG CLEMSON UNIV. .....156.7 SC
WT4E DOLLIERVILLE .....107.2 TN
KD4TUD JEFFERSON CITY ..... TN
WA4TOA NASHVILLE .....107.2 TN
WZ8E BLUEFIELD ..... VA
KF4LWH SOUTH BOSTON ..... VA
449.6500 / 444.6500
K4YC IVEY ..... GA
N4IBW SMYRNA ..... GA
WB4FUR STENNIS SPC CEN ..... MS
N5NBG WALLS ..... MS
NE4J MIDDLESEX .....179.9 NC
N4MME #SALISBURY ..... NC
WA4UIS WILMINGTON ..... NC
WB4NKM GREENEVILLE .....100.0 TN
W4CAT SHRT MT/MURFREB .....107.2 TN
N4EHJ RICHMND/CHLTVL ..... VA
449.6750 / 444.6750
KG4CBU CHEWASSEE .....186.2 GA
N4YTR PEACHTREE CITY .....77.0 GA
KC4VYX ROBINSON CREEK ..... KY
KF4AWA SALVISA .....203.5 KY
N5PS GREENVILLE ..... MS
W4WBT CHARLOTTE ..... NC
KE4JDP #JACKSONVILLE .....88.5 NC
W4GS MYR BCH/CONWAY ..... SC
WA4FOD NASHVILLE ..... TN
KD4MIZ NORFOLK .....107.2 VA
K8WGB GASSAWAY .....123.0 WV
449.7000 / 444.7000
WB4SBT BYRON .....103.5 GA
W4DLQ DALLAS ..... GA
KF4BJM VALDOSTA .....141.3 GA
N5KOL BOWLING GREEN .....136.5 KY
NC5Y JACKSON ..... MS
KD4BGD LUMBERTON .....114.8 NC
N4JEH ROCKY MOUNT ..... NC
AE4GA STATESVILLE .....94.8 NC
K4AU DANVILE/WHT OAK ..... VA
N4WWB MARTE CITY ..... VA
WB8CQV HERNSHAW .....203.5 WV
K8LG MORGANTOWN ..... WV
449.7250 / 444.7250
KD4AOZ WATKINSVILLE .....123.0 GA
KY4K HENDERSON .....203.5 KY
KE4ISR LEXINGTON ..... KY
W4ZCD HICKORY FLAT .....179.9 MS
KG4IWI ROCKY MOUNT ..... NC
KD4MMP WINSTON-SALEM .....107.2 NC
WA4AKM FRANKLIN .....107.2 TN
WB0TMC JACKSON .....107.2 TN
N4CKB SEVIERVILLE .....123.0 TN
KF8FO LEWISBURG .....103.5 WV

449.7500 / 444.7500
KC4ELV CONYERS .....162.2 GA
N4ZRF LAKEMONT ..... GA
KA4MKG ASHLAND .....88.5 KY
K4FAF HOPKINSVILLE .....103.5 KY
WB9SHH MONTICELLO ..... KY
W5VZF STARKVILLE ..... MS
KC4YOT GASTONIA/CRWDR ..... NC
KD4JFN PITTSBORO .....146.2 NC
K4TC HENDERSON ..... TN
N4PYI MT JULIET .....156.7 TN
WD4KQI FOREST ..... VA
449.7750 / 444.7750
N4NEQ ATL/MARIETTA .....118.8 GA
N4MXC COCHRAN ..... GA
N4IWZ ALLEN .....123.0 KY
KC4UPE NICHOLASVILLE .....167.9 KY
K4JDR CARY .....100.0 NC
KR4EX OLD FORT ..... NC
WA4RQF #WALKERTOWN .....103.5 NC
WA4AKM GALLATIN .....107.2 TN
KF4UCI CHARLOTTEVILLE ..... VA
WD4KZK SLINGS GAP .....107.2 VA
449.8000 / 444.8000
WA4ASI COVINGTON .....88.5 GA
W4BEJ ELIZABETHTOWN .....156.7 KY
KB5CO JACKSON ..... MS
WB4PMQ #GREENVILLE .....131.8 NC
KF4LUC HICKORY .....94.8 NC
K4YEC REIDSVILLE .....107.2 NC
KD4QMS SOUTHERN PINES .....118.8 NC
K0JXI MEMPHIS ..... TN
KD4LP #MORRISTOWN ..... TN
N4PYI NASHVILLE .....110.9 TN
KB4MIC OLIVILLE ..... VA
WV8B BECKLEY/OAK HILL ..... WV
W8CUL MORGANTOWN ..... WV
449.8250 / 444.8250
WD4DOC ATLANTA .....146.2 GA
KC4UPE BEATTYVILLE .....192.8 KY
KC4VXR SALEM .....100.0 KY
KB5OSN AMORY ..... MS
KF4UIY HARRY/FSH PK .....100.0 NC
K4GWH RALEIGH .....146.2 NC
K5FE MEMPHIS .....107.2 TN
N4PYI SMITHVILLE .....107.2 TN
WA4ZBP STAUNTON .....131.8 VA
449.8500 / 444.8500
N4BZJ DALTON ..... GA
N4YXL GREENSBORO .....103.5 GA
KF4UIM HINESVILLE ..... GA
AA4NI NEBO ..... KY
AB5DU INDIANOLA .....136.5 MS
KC5LXF PINOLA ..... MS
W4CQ CHARLOTTE ..... NC
K4GMP WILMINGTON .....88.5 NC
WD4MWQ MCMINNVILLE ..... TN
K7AG MEMPHIS .....107.2 TN
AB4SF RICHMOND ..... VA
WD4KZK ROANOKE/READ MT .....107.2 VA
WB8ZER HUNTINGTON/CHAS .....131.8 WV
449.8750 / 444.8750
KE4UIA MCDONOUGH .....123.0 GA
KC4UPE SALVISA .....167.9 KY
N5HTQ MCCOMB .....100.0 MS
N1BEC BALD CREEK ..... NC
KD4RAA RALEIGH .....100.0 NC
W8AU PLINGATE .....127.3 NC
KD4CHL MT. PLEASANT ..... SC
KD4UWA CHAT/MNTLAKE MT .....156.7 TN
WA4AKM NASHVILLE .....107.2 TN
KB4WTP BIG A MTN ..... VA
449.9000 / 444.9000
KD4BQO AUGUSTA ..... GA
N4KHQ DAHLONEGA ..... GA
WB4IVB CORBIN .....100.0 KY
W4YWH HIGHLAND HEIGHTS .....123.0 KY
KC4JTV HUDSON .....162.2 KY
W4EWN NEW BERN .....100.0 NC
WE4J WILSON .....179.9 NC
WB4MMI RAMER ..... TN
W4LYR WATERTOWN .....100.0 TN
N4XRY FANCY GAP ..... VA
N8SCS HOLLIDAY .....141.3 WV
KE4QOX LOGAN .....107.2 WV
449.9250 / 444.9250
WA4NNQ ATLANTA ..... GA
WB4NFG IRWINTON .....77.0 GA
N4PJR JESUP ..... GA
KY4X GLASGOW ..... KY
KO4LI OLIVE HILL ..... KY
N5PYQ SOUTHAVEN ..... MS
WB5TTE VICKSBURG ..... MS
KB4WGA DURHAM .....156.7 NC
K4OBX HATTERAS ISLAND .....131.8 NC
N4XRY MOUNT AIRY ..... NC
AC4RZ EAGLEY/SAS MTN .....103.5 SC
WA4AKM COLUMBIA .....107.2 TN
N4VIH DOVER ..... TN
KD4TZD KNOXVILLE ..... TN
KD4FWS FANCY GAP .....100.0 VA
WB8BON ROANOKE/TINKER M ..... VA
449.9500 / 444.9500
W4TL CLERMONT .....100.0 GA
WR4MG PERRY ..... GA
N4DUE LEXINGTON ..... KY
WB5YGI PHILADELPHIA ..... MS
N5VGK TUPELO .....192.8 MS
WA1WXL DALLAS/CHARLTE .....136.5 NC
KF4HFQ ROLLESVILLE .....88.5 NC
KD4PBC CHARLESTON .....103.5 SC
KF4GP CLARKSVILLE .....167.9 TN
W4EYJ CROSSVILLE .....118.8 TN
K4GX GREENEVILLE ..... TN
WB4NNE MEMPHIS ..... TN
WA4KXV VIRGINIA BEACH ..... VA
WB8COV S.CHARLESTON .....203.5 WV
449.9750 / 444.9750
WA4YNZ ATLANTA ..... GA
K4TVE BRUNSWICK ..... GA
W3LAP COCHRAN .....77.0 GA
WA4YNZ #COMMING ..... GA
KC4QK ASHLAND .....107.2 KY
WB4CWF NICHOLASVILLE ..... KY
KE4AQP ASHEBORO ..... NC
N4JEH CASTALIA .....107.2 NC
W4YMI NEWPORT CCARS ..... NC
KC4ZTJ POLKVILLE ..... NC
WM3O ORANGEBURG ..... SC
KO4E MORRISTOWN ..... TN
WA4AKM NASHVILLE .....107.2 TN
N4AZJ PEARISBURG .....103.5 VA
N8EKT WHEELING ..... WV
449.7750 / 444.7750
W4RKC WINCHESTER .....146.2 VA

T-MARC REPEATER LISTINGS OF: MD, DE, & DC

DISTRICT of COLUMBIA

6 METERS

WASHINGTON	N4QFW	53.310 -

2 METERS

WASHINGTON	W3ETX	145.110 -
WASHINGTON	W3DOS	145.190 -
WASHINGTON	WA3DVO	145.430 -
WASHINGTON	WA3DZD	146.760 -
WASHINGTON	K3VOA	147.045 +
WASHINGTON	N3AGB	147.360 +

220 MHZ

WASHINGTON	W3NKF	224.500 -

440 MHZ

WASHINGTON	N3EUZ	442.550 +
WASHINGTON	N8BOR	442.650 +
WASHINGTON	W3YTW	444.100 +
WASHINGTON	N3LDM	447.825 -
WASHINGTON	W3ETX	448.575 +
WASHINGTON	KC3VO	448.875 -
WASHINGTON	WA3KOK	449.975 +

DELAWARE

2 METERS

DELMAR	KC3RH	146.925 -
DEWEY BEACH	N3OLY	147.330 +
DOVER	N3YMS	146.790 -
DOVER	W3HZW	146.970 -
DOVER	W3HZW	147.195 +
HAZLETTVILLE	K4CHE	147.300 +
MILLSBORO	KB3BHL	147.075 +
NEWARK	W3DRA	146.700 -
SEAFORD	W3TBG	145.210 -
SEAFORD	N3YMS	146.715 -
WILMINGTON	W3DRA	146.730 -
WILMINGTON	WA3UYJ	146.955 -
WILMINGTON	K3WAJ	147.225 +

220 MHZ

DAGSBORO	KA3TWG	224.880 -
GREENWOOD	KD3GS	224.440 -
NEWARK	N3JCR	224.720 -
WILMINGTON	K3WAJ	224.000 -

440 MHZ

CLAYMONT	KA3JRG	444.950 +
DELAWARE CITY	N3HTT	448.825 -
DELMAR	KC3UV	444.050 +
DOVER	K4CHE	444.500 +
GREENWOOD	KD3UI	444.900 +
HARRINGTON	N3HTT	442.450 +
HAZLETTVILLE	WA3BXW	449.725 -
MILLSBORO	K3JL	449.825 -
NEWARK	WA3QLS	449.025 -
SEAFORD	N3KQP	448.175 -
WILMINGTON	W3GQP	443.700 +
WILMINGTON	W3DRA	448.375 -
WOODSIDE	WB3ILS	449.325 -
WYOMING	N3IOC	449.775 -

MARYLAND

10 METERS

CUMBERLAND	KK3L	29.620 -
MECHANICSVILLE	AA3AV	29.620 -
SILVER SPRING	N3AUY	29.660 -

6 METERS

BALTIMORE	N3KEV	51.880-
CASCADE	N3NRI	51.960 -
CATONSVILLE	N3KTX	53.470 -
COLORA	K3UAV	53.050 -
DAMASCUS	KA3SVK	51.920 -
DANS MOUNTAIN	N8YIB	53.410 -
ESSEX	K3GOD	53.390 -
FREDERICK	N3IGM	53.750 -
GAITHERSBURG	K3JAY	53.210 -
JARRETTSVILLE	N3PWF	53.810 -
JARRETTSVILLE	WA3DUR	53.930 -
LEXINGTON PARK	WA3UMY	53.030 -
MANCHESTER	N3KZS	53.190 -
OCEANCITY	K3OCM	53.110 -
PORT DEPOSIT	N3OUT	53.830 -
RANDALLSTOWN	N3GXH	53.150 -
RISING SUN	K3DWB	53.950 -
WALDORF	N4QFW	53.330 -
WESTMINSTER	K3PZN	53.090 -
WHEATON	N3AGB	53.250 -

2 METERS

ADELPHI	WB3FRW	145.370 -
ASHTON	K3WX	147.000 -
BALTIMORE	W3FT	146.670 -
BALTIMORE	W3DID	147.030 +
BALTIMORE	W3EEI	147.285 +
BELAIR	WA3PFT	146.775 -
BETHESDA	K3YGG	145.290 -
BLOSSOM POINT	W3ERU	146.850 -
BRANDYWINE	WA3YUV	147.150 +
CALIFORNIA	N3JTO	147.390 +
CASCADE	WB3EDM	145.250 -
CENTERVILLE	K3ORC	146.940 -
CHARLESTOWN	N3RCN	145.450 -
CHESAPEAKE CITY	K3NCL	145.190 -
CHESTERTOWN	K3ARS	147.375 +
CHEVERLY	KD3VR	146.610 -
COCKEYSVILLE	K3NXU	145.190 -
COLLEGEPARK	W3EAX	145.490 -
COLORA	N3NAB	146.745 -
COLORA	K3UAV	147.165 +
COLUMBIA	K3CUJ	147.135 +
COLUMBIA	K3CUJ	147.390 +
CRISFIELD	N3RKT	145.110 -
CUMBERLAND	W3YMW	145.450 -
DAVIDSONVILLE	W3VPR	147.105 +
E .BALTIMORE	W3PGA	147.240 +
EASTON	WA3GVI	147.045 +
FREDERICK	K3ERM	146.640 -
FREDERICK	W3SOG	146.730 -
FREDERICK	K3MAD	147.060 +
FROSTBURG	KK3L	147.240 +
GERMANTOWN	K4IWF	147.270 +
GREENBELT	WA3NAN	146.835 -
GREENBELT	K3GXF	146.880 -
HAGERSTOWN	W3CWC	146.940 -
HAGERSTOWN	W3CWC	147.090 +
HAGERSTOWN	K3UMV	147.375 +
HARFORD COUNT	KE3BSA	145.110 -
HAVRE DE GRACE	WA3SFJ	146.850 -
HUGHESVILLE	W6QMN	145.390 -
JESSUP	WA3DZD	146.760 -
LEONARDTOWN	N3JTG	147.195 +
LEXINGTONPARK	K3HKI	146.640 -
LEXINGTONPARK	N3HRT	146.775 -
LONACONING	N3JJK	147.315 +
LUSBY	N6QAB	145.130 -
MANCHESTER	N3KZS	146.895 -
MIDLAND	W3YMW	146.880 -
MILLERSVILLE	W3CU	146.805 -
MILLERSVILLE	W3VPR	147.075 +
NEW CARROLLTON	N3EZD	145.230 -
NW BALTIMORE	WA3DZZ	145.130 -
OAKLAND	KB8NUF	146.805 -
OAKLAND	WJ3V	147.105 +
OCEANCITY	KA3BAF	147.015 +
PRINCESSANNE	KA3MRX	146.625 -
RISING SUN	K3DWB	146.925 -
ROCKVILLE	W3RCN	145.250 -
ROCKVILLE	N3GKZ	145.450 -
ROCKVILLE	KV3B	146.955 -
SALISBURY	WA3ROW	146.820 -
SHAWSVILLE	K3HT	145.330 -
SILVER SPRING	KA3LAO	147.180 +
SILVER SPRING	WB3GXW	147.225 +
SUNDERLAND	W3ZNW	146.985 -
THURMONT	N3EJT	147.195 +
TOWSON	KE3BSA	145.270 -
TYASKIN	N3HQJ	146.865 -
WALDORF	KB3BOI	145.350 -
WESTMINSTER	K3PZN	145.410 -
WHITEFORD	N3CNJ	147.120 +

220 MHZ

ARNOLD	WB0FQC	224.080 -
BALTIMORE	WA3DZZ	224.960 -
BELAIRE	N3EKQ	223.960 -
ELLICOTT CITY	N3EZD	224.320 -
FREDERICK	K3MAD	224.200 -
LEXINGTON PARK	WA3UMY	223.900 -
MIDLAND	K7GMR	224.740 -
MILLERSVILLE	W3VPR	224.560 -
NW BALTIMORE	WA3DZZ	224.800 -
ODENTON	N3MIR	224.600 -
PERRYHALL	W3JEH	223.840 -
PORT DEPOSIT	N3VTI	224.520 -
SHAWSVILLE	WA3DUR	224.920 -

440 MHZ

ACCOKEEK	WA3TAI	444.500 +
ASHTON	K3WX	443.150 +
BALTIMORE	W3DID	448.325 -
BALTIMORE	KB3AVZ	449.075 -
BALTIMORE	N3XHK	449.425 -
BALTIMORE	W3FT	449.625 -
BALTIMORE	KA3GWC	443.200 +
BELAIR	WA3PFT	449.775 -
BETHESDA	K3YGG	447.925 -
BOWIE	N3EGO	442.150 +
BOWIE	WA3GPC	444.700 +
BURTONSVILLE	WA3UTY	443.650 +
CASCADE	KK3L	447.225 -
CENTERVILLE	N3KCA	448.225 -
CHARLESTOWN	N3RCN	442.950 +
CHESTERTOWN	WA3UJE	449.175 -
COCKEYSVILLE	KB3BHO	448.525 -
COLORA	K3UAV	443.000 +
COLUMBIA	K3CUJ	448.275 -
COLUMBIA	K3CUJ	449.475 -
CROOM	WA3YUV	443.600 +
CUMBERLAND	KK3L	444.000 +
CUMBERLAND	W3YMW	444.500 +
DANS MOUNTAIN	KG8GN	447.525 -
DAVIDSONVILLE	W3VPR	444.400 +
ELKTON	WA3BXW	447.325 -
ELLICOTT CITY	N3HTJ	448.025 -
ELLICOTT CITY	N3EZD	449.525 -
FREDERICK	K3MAD	448.125 -
FREDERICK	K3ERM	448.425 -
FREDERICK	W3SOG	444.800 +
FROSTBURG	WA3KOK	443.400 +
GERMANTOWN	N3EAE	443.400 +
GERMANTOWN	KV3S	444.200 +
GOLDEN BEACH	W3SMD	447.125 -
HAGERSTOWN	W3CWC	447.975 -
HAGERSTOWN	KA3VLG	448.975 -
HAMPSTEAD	N3KZ	443.800 +
HANCOCK	N2OCW	447.175 -
HARMANS	W3YVV	443.950 +
HARMANS	NS3V	444.950 +
HAVRE DE GRACE	WA3SFJ	449.825 -
HAVRE DE GRACE	N3KZ	444.750 +
JARRETTSVILLE	WA3DUR	448.475 -
JEFFERSON	K3LMS	443.300 +
JESSUP	WA3DZD	444.000 +
LEONARDTOWN	KA3ZYG	449.225 -
LEXINGTONPARK	WA3UMY	443.050 +
MANCHESTER	N3KZS	447.675 -
MARION	WA3BXW	443.850 +
MCHENRY	KE3BA	444.425 +
MILLERSVILLE	W3CU	449.125 -
NE BALTIMORE	KA3ZAN	448.075 -
NE BALTIMORE	N3FFB	449.325 -
NW BALTIMORE	WA3DZZ	443.350 +
OCEAN CITY	AA3HA	443.450 +
OWINGS MILLS	N3CDY	449.275 -
RANDALLS TOWN	N3GXH	444.200 +
RISING SUN	K3DWB	442.850 +
ROCKVILLE	KV3B	442.750 +
ROCKVILLE	WA3YOO	443.900 +
SALISBURY	N3HQJ	442.650 +
SALISBURY	KB3QV	444.200 +
SEAT PLEASANT	N3ST	448.925 -
SHAWSVILLE	W3EHT	449.375 -
SILVER SPRING	N3AUY	449.025 -
SILVER SPRING	AA3HA	443.450 +
SILVER SPRING	WB3GXW	444.250 +
ST. LEONARD	N3AGB	443.300 +
SUNDERLAND	N3AGB	444.350 +
TAYLORSVILLE	N3ST	444.650 +
THURMONT	N3NRR	447.575 -
TOWSON	N3ST	449.675 -
WALDORF	K3SMD	443.700 +
WALDORF	KA3GRW	443.750 +
WASHINGTON	N3UEZ	442.550 +
WASHINGTON	N3UEZ	442.550 +
WESTMINSTER	K3PZN	449.875 -
WHITEFORD	N3CNJ	449.225 -
WYEMILLS	K3SVA	442.950 +

920 MHZ

CROFTON	WB4LNM	919.100 -
GERMANTOWN	K3JAY	919.450 -
WALDORF	N4QFW	919.000 -

T-MARC REPEATER INDEX

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NOTE: Northern Virginia, and the Panhandle of West Virginia T-MARC area repeaters are listed within the SERA Virginia and West Virginia Index listings on preceding pages.

T-MARC INFORMATION

The Middle Atlantic FM and Repeater Council (T-MARC) is the recognized amateur coordinating organization for the states of Maryland, Deleware, the District of Columbia, Northern Virginia and the Panhandle of West Virginia.

Chrmn - Frequency Coordinating Committee
William H. Conaway, W8HNT.
6074 Clerkenwell Ct. - Burke, VA 22015-3225

For More Info about T-MARC check their
Web Site: www.t-marc.org

ALINCO DUAL BAND MOBILES

The DR-605 - inexpensive, yet, fully packed with the features most Amateurs look for. Comes with 9600 bps Packet port, easy to program, with 50 memories plus a call channel. CTCSS encode standard. Optional EJ-24U adds CTCSS decode and tone search features. Cross Band repeat mode.

DR-605 "TQ" **$339.95**

DR-605TQ 2/70 DUAL BAND RADIO. .

Loaded! DR-610TQ - ONLY $429.95

HF TRANSCEIVER - DX-77T

THE DESKTOP HF XCVR! THAT DOES IT ALL!

DX-77 HF transceiver, with 150 KHz to 30 MHz. GC rcvr., xmits 100W on HF 10 thru 160M and 6M.. 100 memory channels. 9.67(w)x3.7(h)x 8.98(d) and weighs slightly over 8-lbs. All mode, noise blanker, all mode squelch, quick offset, RIT, Hi/Lo power controls. There are two VFOs-more!

DX-77T PRICE - **$699.95**

DX-70TH HF XCVR SPECIAL! $749.95

IRI's TWO METER TRANSCEIVERS

The Alinco DR-135T - 2M Voice/Data FM Transceiver DR-235T for 222 MHz. and DR-435 for 440 MHz.

DR-135 - DR235 - DR435

DR-135TP/TPG WITH TNC **$269.95**

DR-135T/TG NO TNC **$169.95**

DR-235T/TG -$239.95

DR-435T/TG - $259.95

The DR-135 has 50W (50/10/5W) CTCSS Encode and Decode, DCS, 100 Memories, plus 10 autodialer memories & Multiple Scan Modes. The DR-135 has Optional Packet & APRS plus Cable clone, backlit mike, Theft Alarm, and much more. Black (TP) or Pewter (TPG) colors. Also has GPS & computer connections. DR-235/435 sold without TNC.

DM-330MV
30A Solid State Switching-$179.95

Variable voltage/current, metered, protections, several outputs. 30A cont.

DM-340MVT (Transformer. Type) - **$169.95**

Other Value-Priced Alincos

DR-M06TH - 6M Xcvr $249.95
DR-M03SX - 10M Xcvr. . . . $164.95
DJ-S46 - FRS Band H/T $84.95
EDX-2-Auto. HF Tuner $299.00

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WE STOCK ALL ALINCO ACCESSORIES

DUAL BAND HANDHELDS

ALINCO

DJ-V5TH 5W 2/70 H/T

A new Star performer in the Alinco Family. Has 200 memories, CTCSS enc/dec, accepts up to 13.8VDC, 4 scan modes. RX 76 to 999.995* MHz., DSQ, and alpha-numeric readout. Only 2.28x3.81x 3.58-in at 11 oz. 3 pwr. settings to 5W.

5-WATTS IRI PRICED **$209.95**

*Cellular Blocked

Watch for more Exciting New Alinco Radios to come this Fall. You can bet IRI will have them in stock and at a good price!

Check our website, call or come by!

Unique-The New DJ-V5TDC and DJ-V5TDCH

Amazing looking little radios. Alinco took the DJ-V5TH and put a CLEAR case on it. The TDC model has a clear case with DRY CELL battery. The TDCH is clear case with Black 5W Battery and a clear dry cell case.

DJ-V5TDCH **$229.95**

DJ-V5TDC **$179.95**

2M-220-440 H/T

The mini twins from Alinco, about the size of most pagers. 20 Memories, AA Batteries, 340 MW, or can use with external DC power conv. Really neat to carry in pocket.

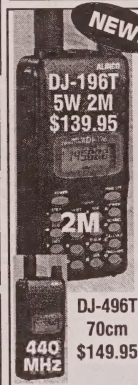
Wow! Credit Card Sized Dual 2/70 H/T - DJ-C5T

The fabulous DJ-C5 has 50 memories, 300 mw output, incl. CTCSS enc/dec. Has long lasting Lithium-ion battery, and detachable flex antenna. Snap-in charger, recharges in 2 hours.

See This one and Others AT IRI!

$149.95

NEW!

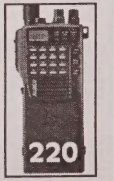


DJ-496T 70cm $149.95

DJ-196 5W 2M & DJ-496 4W 70cm H/Ts have 40 mem., direct DC input, S-Meter, autodialer, theft alarm, CTCSS & DCS en/dec.

2-Meters DJ-180TH $136.95

220 MHz DJ-280TH $169.95



PRICES ON THIS AD WERE CURRENT AT TIME OF PRINTING SUGGEST CALL TO CONFIRM PRICES.

DJ-X2T SCANNER	DJ-X2000T	DJ-X10
Credit Card Sized Multi-Mode Scanner	Intelligent Receiver	Handheld Scanning Reciever
700 Memories	With EBP37N And EDC88	150 KHz thru 2 GHz.
$219.95	$499.95	$309.95

Prices Subject to change without notice or obligation. NC residents add 6% sales tax.. We accept most any Credit Card. For more information on our products - see our Web Site! Call or email us for a free brochure on all our Alinco products, with pricing.

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Getting Started

Gary Pearce KN4AQ
kn4aq@sera.org
116 Waterfall Ct.
Cary, NC 27513

Crossband Repeat
(clear as mud?)

This quarter, I'm going to punish myself. I'm going to attempt to write an article that explains **crossband repeating.** I've seen other articles that tried to explain this evidently complex subject, and most of them were terrible. It doesn't seem that complex to me, so I expect to add to the "terrible article" pile before I'm done. But I'm going to try, because crossband repeat is so useful, especially during public service and emergency events when you need the convenience of your HT, but the power of your mobile, to reach a distant repeater or simplex station. It's going to be worth the effort.

Crossband repeat is a feature that began appearing in many dual band radios almost ten years ago. It's even in some handhelds. It is simply the ability of these radios to take whatever is being received on one band and automatically retransmit it on the other band.

OK, from the quizzical expression I see on your face, I can tell that

1. you have a dual-band radio, and
2. you don't understand what I'm talking about already. Don't fret. You're in good company. Most hams who now understand and use crossband repeat, including me, had a hard time getting a handle on it at first. Let's do a step by step.

CLASSIC CROSSBAND - Simplex to Simplex

For this example, you'll need a crossband capable mobile, a VHF handheld, a UHF handheld, and a friend. If you don't have a friend, perhaps you should check your personal hygiene. But you can complete the example by yourself with reduced effectiveness. And if I do a good enough job, you'll understand what I'm talking about even if you don't have a radio nearby.

Set your dual-band mobile up for simplex on both the VHF and UHF sides of the radio. For VHF, let's not pick 146.52, the national simplex channel. Pick something a little less likely to be occupied in your area - 146.55, 147.51 or something. And for UHF, pick a channel that's part of the SERA Band Plan for crossband repeaters. I'll give you details on that later in the article. For now, let's use 445.900 MHz. Make sure all repeater offsets are turned off, and for now, leave any tone encode/decode turned off as well. And put both sides of the mobile in low power. Finally, set the VHF and UHF handhelds for those same respective frequencies.

Put the mobile in crossband repeat mode.

Talk from one HT to the other, normally a difficult trick because they are on different bands, and.... *Whoa, hold up there, wait a minute!* We need to go back one step. Something about "put the mobile in crossband repeat mode..."? I'm hearing a chorus of SERA Associate Members and even a few Full Repeater Owner Members all saying "how do I do that?" Now I hear the flipping of manual pages, the checking of indexes, the stifled curses of "where the ***#$%*** are the instructions!"

Alas, for many radios, the instructions are *not* in the manual! You may have to do some searching. The dealer you bought the radio from can probably help, or a friend, or a search on the Internet. I'll tell you one thing - you won't be able to guess. For most radios, it's a hidden function involving pressing two or more buttons at once, and maybe even cycling power off and on. I can help with a few models of Icom radios.

OK, let's assume that you've figured out how to get the radio in crossband repeat mode, and it's just sitting there, waiting. Some special icon on the display may be flashing to tell you you're in crossband repeat, and some radio models won't let you operate normal functions in this mode.

Key up the UHF handheld, and keep a sharp eye on the mobile radio. Each radio may show somewhat different symptoms, but generally you should be able to notice that the mobile is receiving your UHF signal, and that the VHF transmitter is on. Talk into the UHF handheld, and you should hear yourself coming out of the VHF handheld. Like I said, a pretty neat trick.

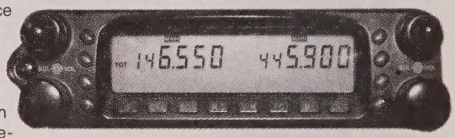
Let go of the UHF handheld's transmit button, and keep watching the mobile. The UHF receiver squelch should close, and the VHF transmitter should drop. On most radios, it will drop instantly, but some models let the transmitter hang on a half-second or so. And the signal on the VHF handheld will drop. Hey, that works kind of like a... repeater!

So what just happened? When you keyed up the UHF handheld, the mobile UHF receiver came alive. Just like in the big repeater downtown, the receiver triggered a circuit that told the VHF transmitter to switch on. Audio was routed from the receiver to the transmitter, and voila! - you have a communications path from the UHF handheld to the VHF handheld. When you let go of the HT's transmit button, the mobile UHF receiver squelch closed, and the circuit told the VHF transmitter to turn off. The only thing missing that you hear on a real repeater was the hang-time that follows each transmission, and maybe a beep or an ID or something.

So let's turn things around and transmit on the VHF handheld. The same sequence of events occurs, but with the opposite bands in the mobile radio. The VHF squelch opens, causing the UHF transmitter to turn on, and audio passes from the VHF receiver to the UHF transmitter.

So now, you and your friend can talk between the two handheld radios, with the crossband mobile switching back and forth, repeating each one in turn. When the mobile is idle, it's waiting for a signal on either band, and when a signal is received, it will repeat out to the other band.

Now, each of you turn and face opposite direction, and start walking. Normally, you'd expect to be able to put about two or three miles between you before signals got too weak (well, OK, normally you wouldn't be able to talk at all, since the handhelds are on different bands, so work with me here...). But with that mobile between you, running a few more watts and using a bigger, higher gain antenna, you're going to get some exercise! Each of you will get at least three miles from the car, probably more. So if you went in exact opposite directions, we're talking six to ten miles. And as usual with VHF/UHF, park the car up on a hill and extend the range even farther.



This is my base station, a Standard C5900, set to crossband repeat between 146.55 and 445.90 simplex. The only clue is the "MAIN" band indicator that's showing on both sides of the radio. It's flashing to attract attention

OK, that wasn't too tough, the concept is clear, you're all set, have a good time, enjoy, thanks for reading... oh, wait.

It gets tougher when you want to use your crossbander to work through a conventional repeater. Maybe a lot tougher. Let's go to part 2:

CROSSBANDING TO A REAL REPEATER - Hung Up On Hang Time

Our first example was simple. Simplex. Simple simplex. It worked because when you and your friend let go of your push-to-talk buttons, the crossband mobile immediately stopped transmitting and began waiting for the next signal to appear on either of its two receivers, VHF or UHF.

But the wicket gets sticky when we try to crossband to a conventional repeater. And this is something you're much more likely to want to do. Say you're heading into a shopping mall. You can hit your local repeater easily from out in the parking lot, but deep inside the building, your little HT just can't make it. You might not even be able to hear the repeater. So you decide to crossband through your car out in the parking lot.

Yes, you can dial the VHF side of the mobile radio to your local repeater, with an offset, and leave the UHF side on simplex, and then put it in crossband repeat mode. Let's see what happens now, and don't worry if you have to go back and re-read the description a few times. This causes confusion in everyone at first.

To get started, everything is quiet. The local repeater is not being used. Your mobile is just waiting. You head into the mall. And you decide to make a call. You key up your HT on UHF, and your mobile responds by rerouting your signal out to VHF, this time to your local repeater's input frequency. So far, so good.

(Continued on Next Page)

Getting Started continues...

You finish your call and let go of the button. The mobile stops transmitting on VHF, and is instantly met with a big signal on its VHF receiver from the main repeater. The main repeater is currently in "hang time" - that several second pause when the repeater stays on the air before dropping. Maybe it beeps. Your crossband mobile reacts quickly, turns on a dime and kicks on the UHF transmitter, sending whatever is left of the VHF repeater's hang time, beep, ID or tail message back to your UHF handheld. So far, still so good, but we've sewn the seeds of the impending problem.

Notice that during the main repeater's hang time, your crossbander is still doing its repeat thing, sending the main VHF repeater's signal back to you. Your crossbander doesn't understand the difference between when the main repeater is repeating a mobile, and when it's in hang time. It's all a VHF signal to your mobile, so it dutifully sends that signal out its UHF transmitter. And with your mobile's UHF transmitter on, it is definitely NOT listening for your UHF HT. It is fully occupied, very busy. At the moment, this is a one-way street, and all the headlights are pointed at you.

Beep. KerChunk. The main repeater has finished its programmed hang time, and dropped off the air. And so has your crossband mobile. It is now sitting there, waiting for you to transmit back.

Well, the light bulb pops off over your head. All you have to do is wait for the hang time, and everything will be OK. As usual, KN4AQ is fretting the small stuff too much.

If only. Yeah, you've got it, the key concept, the Big Point. But you don't respect it enough yet. The severity of the problem is directly proportional to the length of the hang time on the main repeater. And some of them have l o o o n g hang times. Imagine getting into a QSO on the repeater, with you walking around the bottom floor of the mall, going through your crossbander. Every time it's your turn, you have to wait for the repeater's hang time to quit. Five seconds worth. Ooops, somebody blipped the repeater during the hang time to see if they could make it beep, so there's another five seconds. It will become an eternity.

And it gets worse. Somebody breaks in to join the party. And your two friends begin talking. Neither one lets the repeater drop. Normally they don't have to - that's what the beep is for. But you are frozen out. Your mobile is stuck listening to the main repeater, and your UHF transmitter is locked on. We have a name for you: shortwave listener. What can you do?

There are some alternatives, but they all involve compromise.

Or money.

ONE WAY CROSSBAND

If you can hear the main repeater on your HT, and you have the right kind of dual-band HT, you can employ a technique called one-way crossband repeat. But your HT has to be a ***TWOBAAT***, not an ***OBAAT.*** That's Two Bands At A Time versus One Band At A Time. Your HT will have to let you listen on VHF while you transmit on UHF. That cuts the field back a little at HT buying time (my Icom W32 is ideal). If you are so equipped, you've got a good chance of being able to hear the repeater directly on the HT, since most repeaters out-talk their HT range significantly. You just need a little more oomph to hit the repeater, and the crossbander can help.

A few Kenwood mobile models have one-way crossband repeat modes built in. Most other mobiles do not. But you're not out of luck. Any radio can do one-way. Just don't tune the VHF receiver to the repeater! If it can't hear the repeater, it can't get stuck sending it out to you on UHF!

To set up one-way crossband, I usually tune the mobile receiver to the repeater's input. In other words, I make the VHF side of my radio simplex on the repeater input. It may repeat other mobiles out to me if they're in range, but that's no problem - those mobiles don't have hang time. And I'm not even listening to them on UHF. And there are other tricks to keep all signals out of my VHF receiver if I really want to. I can use CTCSS to guard it (unless the repeater I'm using needs me to send CTCSS). More on that in a minute. Or I can program my mobile for a non-standard repeater offset. The transmitter will still be on the repeater input, but the receiver will be off in limbo somewhere, in a quiet part of the band. Programming non-standard offsets is a fairly advanced concept most hams never touch in their radios, so you'll be digging out the manual for that one (at least it will be in the manual).

(Continues on Page 41)

ROCK HILL HAMFEST AND COMPUTER FAIR

SATURDAY, OCTOBER 6th

At Knights Stadium, Ft. Mill, SC - I-77 Exit 88

INDOOR AND OUTDOOR MAJOR DEALERS
GIANT PAVED OUTDOOR FLEAMARKET

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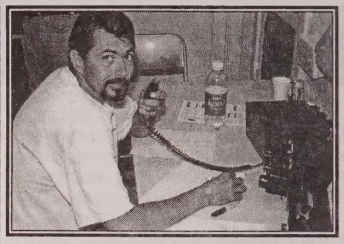
For Further info: Pete Krenn, KC4ZJ 1-803-366-7318 - e-mail: krenn@cetlink.net

Bonus Coverage

Photos of SERA Hams in Action!

John Cunningham, W4CC, NC ARRL SM chats with Marvin Whatley, AA4YW of the Journal staff.



Wayne Gardner, KF4VZQ operates Field Day at the TN, Oak Ridge ARC site. Wayne joined SERA while at the outdoor weekend.

-Journal Staff Photos by: Wayne Williams, K4mob, and Dave Bower, K4PZT.

Ham it up! Several hams who brought their "rover" vehicle while visiting the Knoxville HF in June. The fellows give out many Grid Square confirmations while traveling around the country. Mike, Wechssler, N4OFA, Bert Rollen, K4AR and Wayne Gardner, KF4VZO frolic with one our photographer forgot to identify. Sorry!

Good stuff in the parking lot flea market. This scene is repeated numerous times throughout the Southeast, as the traditional "bone yard" is always there for most hamfests. This was at the Cary, NC show in July. Lots of good junkque deals were done.

Shiela Tallent, KB4G poses with her "absolutely" portable set-up -ready to go on a moments notice. She and others used the setup at the RACK(Knoxville, TN) field day operation in June

There's something big been happening by a bunch of SERA Board members in North Carolina. They call themselves the "NC Lynch Mob" and their goal is to attend every NC hamfest, and pick up as many SERA memberships as possible. They are (l to r) Gary Pearce, KN4AQ, Rj Assoc. Editor, Wayne Williams, K4MOB, RJ Editor, Chuck Wright, K4NYS and Bob Lukaszewski, K4HA, both NC Asst. Directors, Michael Lewis, WA4KE, RJ NC Corres., Danny Hampton, K4ITL, NC Director, and Frank Lynch, W4FAL, NC Vice-Director - and head mongel of the "Lynch Mob."

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One other point. You'll want a handheld that mutes both bands when you transmit, or you'll end up with feedback. Older radios, like my vintage Icom W2A, did NOT mute the VHF band when you transmit on UHF, and vice-versa. A few other older models didn't, either. If you've got one of those classics, you can solve the problem by using an earphone.

That's about all you can do from your end. Your next step is to plead with your repeater's technical wizard to make a:

CROSSBAND REPEAT FRIENDLY REPEATER

There are a couple of things that can be done to make a repeater more "crossband repeat friendly." And not all repeater owners are interested in being crossband repeat friendly. Some owners think that crossband repeat is a nuisance or worse, and will run you off for doing it.

But if your repeater tech crew takes a more positive attitude, they can shorten the hang time to a second or less. This may instigate long, philosophical discussions of the nature and purpose of hang time. But the short of it is that a short hang time makes crossband repeat much easier.

Another more complex alternative is to use CTCSS on the repeater output to help control crossband repeaters. This takes some tricky engineering, but perhaps the repeater's CTCSS can be controlled to be present only when the repeater's receiver is active, and drop off during the hang time. Then you can use CTCSS decode in your mobile for receiving the main repeater and controlling your crossbander. Most dual band mobiles have this ability today. The result is that your crossband repeater ignores the main repeater hang time. When the CTCSS drops, so does the crossbander.

There are some interesting effects when this method is employed. You, using your UHF handheld, feel more like you're in a simplex QSO - no beeps, no hang time. And every repeater user with CTCSS decode can turn on their decoder for a unique experience. When there's traffic on the repeater, they hear voice, then silence, voice, silence. No squelch tails, no beeps.

Maybe the repeater gurus don't want to do all that, but you might be able to persuade them to at least set it up that way during a public service event. But if you don't get a chance to practice your crossband repeating, you'll be hard pressed to make it work the way you expect when it's crunch time.

IN-BAND REPEATING (And Why It Can't Be Done)

You are really getting the swing of things. You're flipping on your crossbander and grabbing your HT any time you need that extra mobile boost. Two-way, one-way, take your pick, you have it knocked. And one day, you stare at your display and realize that your radio is good for **VHF/VHF** or **UHF/UHF** reception. That is, two channels in the same band at the same time. A neat trick many dual-banders are playing today. So you wonder, if my radio will *cross* band repeat, maybe it will *in*-band repeat? Why not?

The answer to 'why not?' is about the size of a two-drawer filing cabinet. It's called a duplexer (I believe W4FAL has a column on duplexers in this issue). What you're asking your little mobile radio to do - with the peanut size diplexer that lets you run both bands on the same antenna - is the same thing the big repeater on the hill is doing: receive with full sensitivity when there's a high power transmitter operating on the same antenna just a few hundred kilohertz away. That kind of magic takes big iron. A full size duplexer. And a lot of shielding in the radio. Fill your back seat with these tuned filters and you're almost in business. But even then, your radio isn't up to the task. You'll need to cut into the radio and bring out a separate receive antenna connection. So you probably get the message - it won't work. It's that wide separation of a few hundred Megahertz that lets your crossband repeater work its magic.

OTHER CONSIDERATIONS IN CROSSBAND REPEATING

Now, a laundry list of additional considerations that a responsible ham will give due regard when crossbanding (did I say this was easy?):

1. Permission. Before you crossband repeat into another repeater, you should find out if that kind of thing is accepted or prohibited by the repeater owners. I don't think there's a legal question here, just an ethical one. A crossbander gone awry can render a repeater unusable. I've been net control for SKYWARN with tornados in the area when someone's crossbander began spewing open squelch noise into the main repeater. I was not pleased. While I'm normally a big crossband repeat advocate, I wasn't that night. And not every repeater owner likes the idea. You might be surprised at the negative feelings out there toward crossbanding.

2. Control. Most dual-band mobiles have no provisions for remote control, yet you are required to be able to shut down the transmitter if something goes wrong (like on that SKYWARN net). If you are just a few steps away from the radio (down in the mall while it's in the parking lot), you're probably covered. Leave it unattended, and you're definitely not.

3. Duty cycle. Your mobile radio is not rated for full-time transmitting. But if you have it crossbanding the busy local repeater to you, it can be transmitting for hours. Definitely run your UHF side on low power, and don't expect it to be a link for you 10 miles away.

4. Identification. You are supposed to ID your transmitter every 10 minutes. Both the VHF and UHF sides of your crossbander are your transmitters, and you should ID both of them. Your verbal ID on UHF, repeated on VHF, covers that transmitter. But the UHF transmitter is busy linking the main repeater back to you - it never hears you, and never ID's with your callsign. Manufacturers have not added any ID circuitry to most dual-band radios, and adapting an external ID is very difficult. This makes long-term crossband repeating a questionable activity.

5. Autopatch. If you don't do it yourself, you'll hear someone do it - bring up an autopatch while using a crossband repeater. If you're doing one-way crossband, this will work. But if you're doing it while depending on the crossbander to hear the repeater, you'll be stuck once you've dialed the patch and let go of the button. Guess what - the main repeater stays on the air, and your crossbander is not listening for you! Hello? Hello? Click! Maybe another user will kill the patch for you.

6. Band Plan. Where do you stick your crossband repeater's UHF link? SERA makes this easy by band planning several channels for crossband repeaters, either at home or mobile. The fixed station crossband repeat channels are:

440.7375	440.7625	440.7750	440.7875	440.8125	440.8250
440.8375	440.8500	440.8625	440.8750	440.8875	440.9000

and the mobile channels are:

445.7375	445.7625	445.7750	445.7875	445.8125	445.8250
445.8375	445.8500	445.8625	445.8750	445.8875	445.9000

(Continues on Page 43)

SERA Repeater Journal Advertising Rate Card

NO. 29 - Effective 1 January 2001

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HAMFEST: Advertising must be ordered each edition for insertion. Payment must accompany insertion order/advertising copy for Hamfest ads.

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Advertising sizes listed above are width by length in that order. Ads received that do not fit dimensions will be adjusted to the nearest ad size and be billed $8.00 production fee. The ad will be billed at the size rate it had to be adjusted to.

Prices quoted are for exact size, camera-ready positive photoprint, pasteup or Laser print ad copy.

Full color ads for covers require negatives, right-reading emulsion down, sized for full 8-1/2x11 bleed. 150-Line screens preferred. Color Match Proof, Color Key or Pre-printed tearsheet should accompany negatives.

Design, typesetting, layout or pasteup is available at no charge for advertising to be run in the Repeater Journal. When possible, advertisers requiring typesetting or composition by the Repeater Journal staff will receive a proof with time for telephone or email corrections. No proofs are available for ads with typesetting submitted after deadline, due to staff and time limitations.

The Repeater Journal cannot be held liable or responsible for errors in advertising, or to the quality or accuracy of advertising claims.

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Ad copy deadlines are the 1st of the month, prior to month of publication. New ad insertion order deadline is 10 days prior to copy deadline.

The Repeater Journal cannot guarantee publication of any advertising that arrives after deadline unless prior arrangements are made with the Repeater Journal Advertising Department.

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FEBRUARY ISSUE - January 4,
MAY ISSUE - April 1,
AUGUST ISSUE - July 1,
NOVEMBER ISSUE - October 1.

The Repeater Journal is published by and is the magazine voice of SERA, Inc.

222 MHz - It's a Well Kept Secret In Some Parts of the Southeast

-by Terry West, K4VH

Want to know what the best-kept secret in amateur radio is? 222MHz!

Oh, sure, you've heard all the myths and have been hesitant to spend the extra couple hundred dollars to buy a radio. In some areas even if you had a radio, there may be no one to talk to and you probably would much more activity and repeaters on 2M. The 1-1.4M band has it's hot spots - areas there there is lots of 222 MHz. activity. Well, in eastern Kentucky, that's definitely the case - it's a hot spot for 222!

We have this WR4AMS Repeater System which has 4 linked 222MHz repeaters on the air and more under construction. Activity is better than on 2 meters in most areas and with our linkups, some pretty fabulous QSOs are happening between happy 222 operators. The linking repeater system control operators are: K4ITF Mike McCown, KS4XL Frank Belcher, and K4VH Terry West. We proudly note that the repeaters are SERA coordinated and we support SERA with our membership. We certainly hope that all amateur operators in the area, or passing through the area, take advantage and feel welcome to use the system.

Here's a brief rundown of what we presently have on line at this time:

- 224.380 Pikeville, KY. This frequency is subject to coordination which is underway at this time. The repeater is a Spectrum SCR 1000 with a CAT 200 controller, Wacom duplexer and a Hustler G7-220 antenna.
- 224.520 Dorton, KY. This is the group's main repeater. It is a Spectrum repeater, Link rlc2a controller, Wacom duplexer, CAT WX-1000 weather station and a Hustler G7-220 antenna. The repeater is located on Flatwoods Mt.
- 224.720 Langley, KY. The repeater is a Spectrum with a CAT 1000 controller, Wacom duplexer and a Hustler G7-220 antenna.
- 224.820 Hazard, KY. The repeater is a Spectrum with a Link rlc2a controller, Wacom duplexer and a Hustler G7-220 antenna.
- 224.980 London, KY. The repeater is a Maggiore with a CAT 200 controller, Wacom duplexer and a Hustler G7-220 antenna.

We also in the process of putting up a 6 meter repeater on 53.350 that will be located at the same location as the 224.520 machine.

We'll be passing the word along as we add more to this system.

If you're already on 222MHz - Then be sure to check our system out. If you're not yet on 222MHz - there's really not excuse - equipment is now readily available - with the new ADI and Alinco 222MHz transceivers reasonably priced. In fact, we've noticed and taken advantage of an advertiser in the Repeater Journal that sells the Alinco for slightly over a couple hundred!

We also have a talkaround net at 9pm est on Thursdays on our link. All amateurs are welcome to check in.

Special thanks to SERA Kentucky director: Jerry Shouse for putting up with all our coordination requests and helping make our system possible.

For more information and updates on our system, check the WR4AMS website at http://www.wr4ams.net and/or email: k4vh@wr4ams.net

Mister Guitar, W4CGP, SK

-Special Bulletin 8 From ARRL Headquarters

Guitar picker, music legend and Amateur Radio operator Chester B. "Chet" Atkins, W4CGP, of Nashville, TN, died June 30. He was 77.

Known as "Mister Guitar," Atkins hailed from East Tennessee and began his musical career playing fiddle, but later earned his reputation as a guitarist. He went on to become the most-recorded solo instrumental musician in history.

Formerly WA4CZD, Atkins, a General licensee, obtained the vanity call sign W4CGP in 1998 - the suffix standing for "certified guitar picker." He was an ARRL member. He won 14 Grammy awards during his career and was elevated to the Country Music Hall of Fame in 1973.

He was presented with a Lifetime Achievement Award in 1993 by the National Academy of Recording Arts and Sciences in part to recognize his guitar-picking technique as well as his wide influence on music. He had more than 100 albums to his credit.

In addition to his own success as a performer, Atkins helped launch the careers of other notable performers. He is given primary credit for developing the uptown Nashville Sound that helped country music to compete with pop music.

In his later years of performing, he sometimes paired up with musicians from the pop and jazz worlds and was a frequent guest on the radio program "A Prairie Home Companion."

A funeral service for Chet Atkins was held July 3 in Nashville's Ryman Auditorium, which formerly served as the home of The Grand Ole Opry where Atkins performed for many years.

More information on Chet Atkins is on the his Mr. Guitar, Website: www.misterguitar.com/index.html

GO FOUR! GET FIFTEEN!

Hamfest sponsors should contact the Repeater Journal Sales department and find out how you can save 15% off your Journal ad just before your scheduled hamfest! It's SO simple . . . run four issues of advertising, and for the last issue before your show, take off 15%!! (Run 3, get 10% off)

Getting Started concludes

SERA does not coordinate crossband repeater frequencies - you're on your own. But if a bunch of you will be using several crossband repeaters for a public service event, you might coordinate among yourselves to avoid interference (hey, the birth of frequency coordination all over again).

7. CTCSS. As I said earlier, a crossband repeater gone awry can really mess up the big repeater by jamming the input with junk picked up by the crossbander. You can reduce the problem by using CTCSS encode and decode on your UHF link side. That will keep most junk from opening your squelch on UHF and spilling out your VHF transmitter into the main repeater.

8. Crossbanding to UHF Repeaters? All my examples so far involved using UHF as your link, while crossbanding to a VHF simplex or repeater frequency. Can't it be done the other way, crossbanding from a VHF simplex channel to a UHF repeater? My opinion is that this isn't a good idea. The two-meter band is smaller, more crowded, and has a limited number of simplex channels. No channels are band-planned for crossband links. So you've got a greater chance of causing interference to existing activity. Suppose you use 146.55 for your link, and guard it with CTCSS. The UHF repeater you're linking to is quiet. A couple of local hams begin talking on 55, and after a few minutes the UHF repeater gets busy. Your crossband link will interfere with the contact on 55 unless you take action to stop it.

There's another issue to interpret. Is your crossbander an auxiliary link, or is it a repeater? The rules aren't all that specific. You can declare it to be a full repeater, I suppose, but tell it to Riley. Most people would consider the radio link between you and your mobile to be an auxiliary link, and as such it is not permitted below the 220 band.

If you do decide to declare it a full repeater, you must stay inside the segments of the two-meter band authorized by the FCC for repeaters: 144.5-145.5 and 146.0-148.0.

9. Crossbanding two repeaters together? *No, no, no!* Well, maybe. The *no!* part is the general rule. If the repeaters have hang time, you will create an endless loop of one repeater kerchunking the other. The "well, maybe" is possible if you are in charge of both repeaters (one UHF and one VHF) and have decided to link them this way temporarily. If the repeaters have zero hang time (or CTCSS as I described earlier), it might work. But SERA Frequency Coordinators will be very unhappy with this linking arrangement unless it's for a special, temporary use.

A SUPER ELABORATE SYSTEM - Two Crossbanders Make a full Repeater

If you're on of those hams with more equipment than you know what to do with, and you happen to have an extra dual-band mobile or HT, you can set up two crossband repeaters and make what is essentially a full UHF repeater. That solves ALL the problems of hang time and being able to hear the main repeater on your HT. You can even make an phone call using the autopatch. You might have a local desense problem to solve, and you'll need a bunch of antennas to get it all done. But it works - Mark Freese WD4KSE has been doing that for the past several big bike tours we've handled here.

If you try that, SERA had two UHF "itinerant" repeater frequencies to pick from: 445.750 - 440.750, and 445.800 - 440.800.

These are reserved for itinerant and short-term use during a special event or emergency with no formal coordination required. Trustees/ Owners are encouraged to notify their local coordinator to inform them of system parameters and expected duration of use. Note that they are surrounded by the other crossband repeater band-plan channels.

OK, that's it. Another attempt at explaining crossband repeat. Clear, or clear as mud? I can't tell, but I'm open to feedback at: kn4aq@sera.org.

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FEB. - By Jan.15th
MAY - By Apr. 15th
AUG - By Jul. 15th
NOV - By Oct. 15th

What is Happening - In South Carolina

Roger Gregory W4RWG
102 Partridge Road
Union, SC 29379
(864) 427-1462
rgregory@carol.net

Hello South Carolina,

I hope everybody had a good time with field day activities. From reading the newsletters, I could see that many of you were making plans for a fun day with your club. After field day passes, I always look forward to the Asheville and Shelby hamfests, two of my favorites. I hope to see my friends from North Carolina there. My wife Kathy and I attended the SERA Summer Board Meeting the weekend of June 2-3 in Pigeon Forge, Tennessee.

At this meeting I was elected to the position of South Carolina Vice Director. This was made possible due to the former Vice Director Ed Frank, KC4ED having to resign due to health problems. We will all miss him at the board meetings, and I hope Ed's health improves real soon. As the new Vice Director for South Carolina I promise to do everything I can to assist new applicants as well as trustees and owners of established repeaters in Western South Carolina. I will continue my SC news article in the Repeater Journal, and with the help and guidance of Bill Jones, South Carolina Director and coordinator for the Eastern part of the state we will see that South Carolina hams get the service from SERA that they deserve and expect. I appreciate the confidence and I am honored to have the opportunity to serve SERA in this capacity.

* * * * *

The Anderson Radio Club's members have been busy with various events. On May 6 they helped with the bicycle race in Clemson, S.C. by providing communications. On May 19, they had their annual hamfest on Lake Hartwell at Sadler's Creek State Park. This year the Anderson Club was the sole sponsor due to the Hartwell, Ga. Club deciding not to participate. By all reports, the hamfest was a success. Next year's event is already being discussed and the date has been set for Saturday, May 18, 2002. I was glad to see that the Anderson Club decided to continue this hamfest. I passed my General test there in 1997 while on crutches. (That's another story) The ARC held a Special Event Station May 25-28. This was done to celebrate Freedom Weekend Aloft. The ARC holds a net every night at 8:30 p.m. on the 146.79 repeater.

* * * * *

The Blue Ridge Amateur Radio Society had Stephen Burress of the National Weather Service as guest speaker at their May meeting. He spoke on severe weather, how to identify cloud formations, and special terms used on NOAA weather radio. On June 2, the BRARS helped with the VRRROOM Rally Fundraiser for the Red Cross. They were assigned to various duties including starters/timers, and route watchers. The Upstate hamfest held at Spartanburg County Fairgrounds was a great event again this year. A lot of hard work was done by BRARS members for this hamfest. SERA was there and sold 41years of associate memberships. I found out that this is a record for SC for any one show. In fact, I am told that this is tapping on the door to the all-time record set in NC last year at the Elkin Hamfest. Thanks Sue for inviting me. I want to thank Gerald Emory-WG4E, Maxi Hutchins-N4ENQ; and Ora Hutchins-K4WUJ for their help with the SERA booth. I extend my sympathy to Tommy Ellison-K4TWE and his family for the loss of his father. My thoughts are with you. The BRARS welcomes new members Phil White-KG4MFG, John Greenall-K9NAA, Bill morris-WD5KAE, and Bob Coleman-K4AWB.

* * * * *

The Chester Amateur Radio Emergency Services Club elected new officers at their June meeting. Those elected were Joel Shockley-K4TDG, President, Sam Bridges-KJ4ZM, Vice President, and Danny Carns-KI4DC, Secretary/Treasurer. The second annual CARESC tailgate party was held on June 16 at Chester State Park. Members from the Chester and Union Clubs had a great time. SERA was there too! The CARESC held it's first Technician amateur radio class. I congratulate Tony Helms-KG4NWC, and Ross Brawley-KG4NWE for passing their Technician class exam. The CARESC sponsors the 145.310 repeater.

* * * * *

The Columbia Amateur Radio Club provided communications for the Soap Box Derby sponsored by the Optimist Club. Thanks to Jeff Webb-KE4GTZ, Bruce LaFluer-KC4NTG, Cliff Inabinet-KF4UOR, Robert Cooke-K4RKC, Roger Arnett-KF4PRV, and Teddy Warren-KF4VZJ the communications support went great.

* * * * *

The Florence Amateur Radio Club is looking into the possibility of installing a repeater on top of McLeod Medical Center. The officials of the medical center are interested in amateur radio operators helping out in times of emergencies. They have several hams on staff that wants this service. This would give

Continued on Page 46

The Raleigh Amateur Radio Society says:
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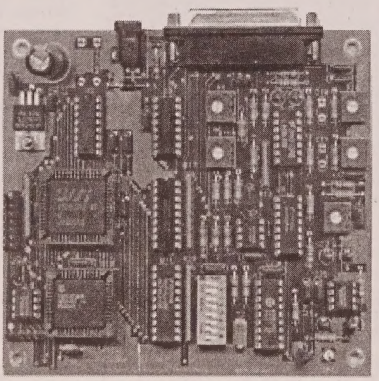

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South Carolina News

(Continues from Page 44)

the FARC the ability to be on a generator, which they don't have now. The FARC is going to assist the Florence Public Library establish a good selection of books on Amateur Radio. This might even include a subscription of the ARRL's QST. This is a very good idea. I would like to see every club follow this idea for their community. They are also in the process of contacting members in the SC House and Senate about sponsoring a bill to permit amateur radio operators to put up antennas in developments that have covenants that do not permit them. SC would be the 12th state if this came to pass. The club welcomes new member Libby Padget-KG4MGR. The FARC and the 146.970 clubs have merged. The FARC welcomes their new members. The 146.970 repeater has auto patch and speed dialing which is a nice feature for users. FARC also sponsors the 146.850 machine.

* * * * *

The Grand Strand Amateur Radio Club reports that Horry County has a new Skywarn Coordinator, Rick Summerford-KF4VGV (AKA Mr. Weatherman). Rick has the time, know how, and works closely with the Naticnal Weather Service. Rick has appointed George Hamblen-KF4EIT of Garden City as his assistant. Skywarn Net Control Operators are Bill Grefe-W2UAF, Robert Herrick-KF4LPV, Jim Wood-KF4CJE, Matt McGuire-AF4UZ, and Gordon Mooneyhan-KE4HXL. When Skywarn is activated in Horry County, all area hams check in on the 147.120 machine. Thanks Jim for sending me this information. Put me on your club's newsletter list for future information in the Repeater Journal.

* * * * *

The Keowee Toxaway Amateur Radio Club honored Donald Brewer-KU4DX with life membership for his contributions to the KTARC and amateur radio. New members to the KTARC are Josh Gosnell-SWL, Michael Smith-KB4RRL, Glenda Smith-KG4MHP, Scott Swanson-KG4MUM, and Wayne Yates-KG4MUK. The club publishes a very nice newsletter each month. It always is filled with color pictures of club members. They mourn the death of Blant-WA4NRU. His lively humor will be missed on the local repeaters.

* * * * *

The Laurens Amateur Radio Society participated in Field Day for the 9th year at the Lake Rabon State Park, located in Laurens, SC. The Club President Jim White-KF4YKT was very pleased with the collective efforts and enthusiasm of the club members. LARS operated in the 1A category and made 577 QSO's. Glenn Scott-WA4AOS chaired the Field Day Committee. One of the interesting bonus points this year was the invitation and visit of an elected official. Laurens County Sheriff Rick Chastain was invited and attended for several hours. The Laurens Advertiser featured a front-page color article about the LARS Field Day event. When it was all said and done, the LARS had earned 1300 bonus points and 2174 QSO points for a final score of 3474, which should put the club in the top 20% of the 1A stations in the nation. The LARS group meets the third Tuesday of each month at the 911 building on South Harper Street. This is our first report from Laurens; keep sending me news each month.

* * * * *

The North Augusta Belvedere Radio Club provided communications for the Aiken Triple Crown Road Race on March 10. Those helping were KE4VVR, K4FKJ, WD4PEL, KA4ZBN, KF4AM, KB4GYT, WD4PLF, and KD4NJN. I extend my sympathy to Mitch burgess-K4JIF for the loss of his wife Kathryn. They had been married 59 years. Isn't that something? The NABRC welcomes new members Ron Lee-WB4RXZ, and Cathy Lee-KF4YEO. The NABRC participated with an EPD drill on April 24-25. Future plans are for the club to provide communications for the Aiken Whiskey Road Race in September and the Run for the Woods coming up in November. More about these in the next issue.

* * * * *

The Salkehatchie Amateur Radio Society reports that their 2001 tailgate party was a success. They had a dealer, The Signman, who came all the way from Baton Rouge, La to participate in their show. The SARC extends their sympathy to the family of George Grimes-KS4WD who passed away on June 1 of a sudden heard attack. Cards may be sent to the Grimes Family at 253 McDonald Street, Commerce, Ga. 30529. From reading the newsletters, it looks like the SARC had a great field day. They were talking about towers, generators, rotators, radios, and lots of food, drink, and ice, and Ray was going to bring a computer for logging. Let me know how you did with Field Day for the next issue of the Repeater Journal.

* * * * *

The St. George area of Dorchester County has a new repeater. Clarence Jones-W4DTW has moved his machine from the Santee area to St. George. The repeater is located just off I 95. The machine, a GE Electric Master is on the frequency of 147.225. The W4DTW is a open repeater system and is a SERA full member.

* * * * *

The Spartanburg Amateur Radio Club is making plans for a special event station to celebrate the 50th anniversary of the club. They will be 50 years old in April of 2002. Fritz-W4NTO has donated a new flagpole for the Red Cross Building. He said he was too much trouble to climb the 100-foot tower on top of the building to replace the flag. The new flagpole is 35 feet high, has enclosed ropes and a gold ball on top. I wonder how long it will be before Fritz has a dipole hooked to it? The SARC meetings are held at the Red Cross building each month and they have a real nice amateur station located there. The 442.075 repeater was hit by lighting and was out of service for a period of time, but is back up and running fine. Surge suppressors have been installed to try to prevent further problems.

* * * * *

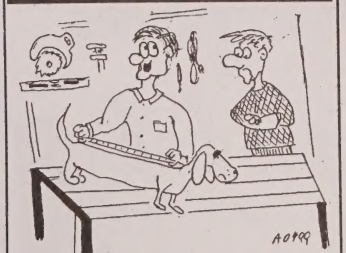
The Union County Amateur Radio Club is in the process of planning their hamfest for December 8th, 2001. Fliers are being printed, table rental is being arranged, tickets are being printed, and food plans are under way. They are hoping for the best show ever. UCARC members Bill-W4DBH, and Net-KF4YQT hosted a Giant Hash Cookout, Swap Fest, and Live Country Music for hams in Spartanburg and Union County on April 21 at their home in Cross Anchor, S.C. This is becoming an annual event. Bill lives in "Cross Anchor County" as he calls it. The food and fellowship was great, and the Swap fest attracted about 20 tailgaters. A live Country Music Group provided the entertainment and Bill cooked the hash. The UCARC assisted the local EPD Director Stephen Jones in June by helping him move the Emergency Operations Center to a different location in the building. He now has a nice new EOC complete with 2 meters and HF. The move was necessary due to 911 expanding.

* * * * *

In closing, I want to thank all the clubs for keeping me informed about your club's activities. This makes my job much easier. Help me make the South Carolina Column bigger and better each issue. If you are reading this magazine and you don't see anything from your club, ask them why? Then tell them all they have to do to see their club news in print is to send it to me ad the address at the beginning of the column. My email is: w4rwg@sera.org.

-73 Roger, W4RWG

AA4QQ JOURNAL CARTOONS



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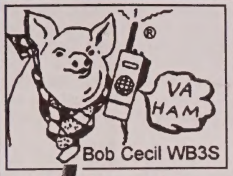

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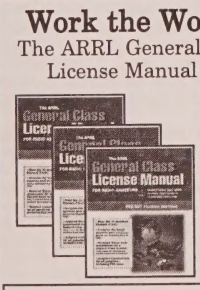

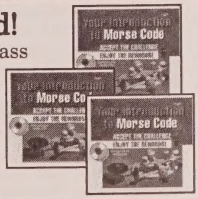

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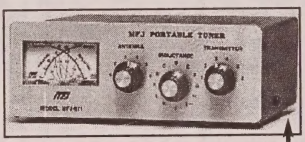

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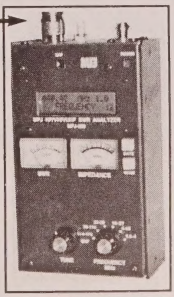

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News of Georgia

M. Terry Jones, W4TL
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w4tl@arrl.net

Well, spring is past and we are now well into summer with all of it's heat and high humidity. A lot of local hamfests are history for this season with a few more left before the year's end. We were able to make it to the Dayton Hamvention in May and had a great time in spite of all the rain on Friday of the hamfest. It was well attended, as always, and we ran into quite a few Georgia folks.

Felton Floyd, AF4DN, reports that the Calhoun Hamfest was the best ever and those who attended the Atlanta Hamfest on June 2 reported that it was much improved over last year with a good attendance. The Gainesville Hamfest on July 14th was the best attended event in it's history. The GA Mt. Center was full of dealers and attendance was up 30% over last year I have noticed that this year there is a different "twist" with some of our hamfests. For example, the Atlanta Hamfest was a cooperative effort with several clubs: the Atlanta Radio Club, the Kennehoochee ARC , the Paulding County ARC and the Gwinnett ARS (GARS). This spirit of camaraderie between different radio clubs helps to make us stronger as a fraternity and demonstrates that we are willing to help each other for the betterment of the hobby. This type of spirit is very encouraging. The remaining hamfests in Georgia, that I am aware of, are Ellijay, August 4th, Prater's Mill in Dalton, September 8th, Dallas, September 15th, Augusta, October 13th and Alford Memorial Radio Club (Lawrenceville), November 3rd & 4th. Let's all get out and support these our clubs by attending these events.

* * * * *

The weekend of June 23rd and 24th was the annual ARRL Field Day. There was quite a bit of activity with Field Day here in Georgia with a lot of clubs participating, as well as other groups who get together to "rough it" for the weekend. Some did not "rough it" as much as others. Some were set up close to air conditioning and inside facilities and others fought the Georgia gnats, mosquitoes and other outdoor varmints. The bottom line is that amateur radio was well represented that weekend wherever you went. Those that set up in parking lots and other public locations definitely gave amateur radio a boost by exposing our hobby to others. All that I talked with had a great time with a lot of good fellowship and enjoyed some great cuisine. It gave us all practice in setting up our equipment under not so favorable conditions and proving that we can communicate when the need arises.

* * * * *

Here is an excerpt from the Albany Amateur Radio Club's Field Day Activities:

Field-Day 2001 W4MM - This years Field Day was held at the Southwest Georgia Boy Scout Council's Camp Osborn in Worth County. We had around 20 to 25 members that spent time operating one or more of the three HF Field Day stations.

Some camped out in motor homes like Charles AD4KT and Susan KF4YED, Al KF4BHW and Toy KF4GEA and the real camper honors go to Gene W4AYK who stayed in his pop-up tent. OH! I almost forgot Arthur N4GPJ who tried to sleep in his van, said it didn't sleep too good. Maybe he should have brought his tent. Some operated all night and a few came back and operated until the wee hours of the morning before going back home for some needed shut-eye.

Thanks to Stan W4GOD for setting up the Information booth and coordinating the media coverage by Albany's Channel-10 TV News and also for coordinating with the Boy Scouts during Field Day.

Thanks to Jim KG4CCM and Charles AD4KT for coordinating with Camp Osborn for our field Day site.

John KR4OH our "Chairman of Everything" made sure we had plenty to eat, drink, the needed antennas, coax, tools, and even watermelon.

We operated three stations on battery power. Larry N4FD (the CW machine) came out and operated CW on his new FT-817 5W rig. Really worked well. Again this year, Brett KF4SQB set up his 10-meter rig with home-brew vertical and accounted for most of the 10-meter contacts. The 10-meter propagation was up and down during most the weekend. 20 and 40 meters seemed to be the best bands.

And, Field Day would not be complete without the participation of George (KE4VPD), Cat (KF4TJR) and the mighty Ham-Dog Schnapps.

We had several Boy Scouts drop in and learn about Amateur Radio. Some even got to operate the radios and make some contacts. Some of the Scouts asked if they could grill the hot dogs for us at lunchtime to earn extra credit. They really did a great job with lunch. Other Scouts volunteered to take their bow

(Continues on Next Page

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WVs Patrick Clark is Newsline Award Winner

-Tnx, The ARRL Letter via AR Newsline

Patrick Clark, KC8BFD, a 17-year-old ARRL member from Elkview, West Virginia, has been named the ***2001 Amateur Radio Newsline Young Ham of the Year***. Award Administrator Bill Pasternak, WA6ITF, says Clark is heavily involved in public service, emergency communications and youth recruitment.

The Young Ham of the Year Award is jointly sponsored by Pasternak's Los Angeles-based Amateur Radio Newsline, Vertex Standard USA (Yaesu) and CQ magazine. The award is presented each year to a radio amateur 18 or younger who has provided outstanding service nationally or locally or has contributed to the betterment of the state of the art in communication through Amateur Radio.

A licensee since age 10, Clark comes from an all-ham family. His father, Jeff, and mother, Tina, are K8JAC and N8TSY respectively; his sister, Erin, is KC8PZZ. Patrick Clark has been involved in emergency service work from the day his ham radio ticket arrived in the mail. He was among amateurs who responded in the wake of the West Virginia Field Day floods of 1998 - when the annual emergency preparedness drill turned into the real thing as the skies unexpectedly opened up.

In addition to his Amateur Radio Emergency Service activities, KC8BFD is also a certified severe weather spotter with SKYWARN. Clark has twice spoken at the Dayton Hamvention Youth Forum, and he promotes Amateur Radio to other youngsters through personal appearances.

Among those supporting Patrick Clark's nomination was ARRL West Virginia Section Emergency Coordinator Morris "Mac" McMillian, W8XF. "I have always been able to rely on Patrick's ability to think on his feet in a drill or actual ARES activation," McMillian said, adding that he believes that the future of ham radio is in good hands with amateurs like Patrick Clark, KC8BFD.

The 2001 Newsline Young Ham of the Year Award will be presented on Saturday, August 18, at the Huntsville Hamfest in Huntsville, Alabama. As Young Ham of the Year, Patrick Clark will receive - courtesy of Vertex Standard USA - an expense-paid trip to the 2001 Huntsville Hamfest, along with a gift of Yaesu ham radio equipment. CQ magazine will treat Clark to an expense-paid week at Spacecamp Huntsville and other gifts. Amateur Radio Newsline will present a commemorative plaque at the award ceremony.

Got News from Your Club or Group? Want It in the Journal? Contact your RJ Correspondent

Georgia News - Continues

and arrow and shoot fishing line over the tall pine used to pull up our antennas. They weren't too sure about this to start with, but once they figured what these guys were trying to do, they really had a good time with it all.

We also had a couple of potential Hams come out and operate, hopefully they will continue to be enthused and get their licenses.

This report is typical of other groups in Georgia who enjoyed Field Day. Looking forward to Field Day 2002.

* * * * *

Don't forget the annual ARRL SET, October 6 & 7. This is another practice event which allows us to involve other agencies in a simulated emergency and demonstrate our capabilities. These exercises help keep our skills honed in the case of a real emergency. Keep in mind that we are in the middle of the 2001 hurricane season and may be needed to lend a hand with communications at any time.

* * * * *

It will not be long now until the SERA will send all Georgia repeater owners data sheets (sometimes in late September or early October) to be completed and returned. Maintaining an accurate data base is a very difficult job. It is to everyone's benefit that these data sheets be completed accurately and returned. Without an accurate data base, frequency coordinators have a hard time coordinating a new repeater according to published guidelines. In other words, coordinators cannot do any better than the accuracy of the information you have provided for the data base. If you have any questions about completing the data sheets, please contact one of the Georgia staff for assistance and by all means send in the information. Of course, the SERA would like to have your membership and I would encourage you to join, but membership is not as important as having accurate information to work with. The only way the SERA can have accurate information is for you to provide it. So it's up to you.

* * * * *

Two Georgia amateurs who have won scholarships from the ARRL for college study:

David Ziskind, KE4QLH, Atlanta won a $1,000 award. David is well known in Atlanta. A Georgia Tech student, David handles the massive logistics of coordinating communications for the Georgia Games held each July. Good luck to you David in continuing your education and in your amateur radio endeavors.

Jim Fletcher, KG4FGL, Columbus, won a $500 scholarship. He is a student at Indiana University. Congratulations, Jim, and best wishes in continuing your education and your amateur endeavors, too.

* * * * *

Penn McClatchey, K4PE, and crew at the Atlanta Radio Club are still feverishly working to get what is known as the WFOX repeaters (145.350 & 444.450) back on the air. All of ARC's repeaters have undergone total renovation and are now tentatively scheduled to go back on line in September of this year.

* * * * *

The net I would like to spotlight in this column is the Quarter Century Wireless Association (QCWA) Peach State Chapter 49 weekly net. This net meets each Saturday morning on 3857.5 Khz at 9:00 AM local time. W9BKJ is net control and I am sure he would be delighted for you to check in. If you have been licensed at least 25 years you might even consider joining the QCWA, they are really a nice group of people.

* * * * *

If you haven't added me to your newsletter mailing list, please do so. I appreciate those of you who have. This is where I am able to pick up news about happenings going on in Georgia. It's extremely hard to report information if I don't get it. I prefer getting the newsletters electronically and you can send them to me at w4tl@sera.org or if you prefer mail them to me at 4816 Windwalker Drive, Flowery Branch, GA 30542. If you have something you would like mentioned in this column, please drop me an e-mail and let me know and I'll try and incorporate it.

We hope you all enjoy the remainder of summer and hope to see you at some of the hamfests in the area. Until next time 73'

-Terry Jones - w4tl@sera.org

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Morse Code Changes in Testing Effective July 1

-Tnx - ARRL Letter

New Morse code exam standards went into effect July 1, for all Volunteer Examiner Coordinators. The new standards call for Farnsworth character speed in the 13-to-15 WPM range and the end of multiple-choice questions for routine Morse code exams.

The National Conference of Volunteer Examiner Coordinators voted July, 2000 to set up the revised standards for the administration of Morse code examinations in the US after amateur restructuring established 5 WPM as the sole Amateur Radio Morse code requirement.

ARRL VEC Manager Bart Jahnke, W9JJ, points out the required change to the Farnsworth protocol replaces the 18-WPM character speed ARRL VEC has used since 1989. "Standard 5 WPM messages with 5 WPM characters are available as an accommodation," he said. "Standard (non-Farnsworth) speed messages are available upon special request from the ARRL VEC for ARRL VE teams." In addition, the Morse exam audio frequency range should be between 700 and 1000 Hz for routine exams.

Consistent with the revised standards, Jahnke said, ARRL VEC has set 15-WPM characters as its Farnsworth setting and 750 Hz as its audio-frequency standard.

Code practice transmissions from Maxim Memorial Station W1AW will reflect the new Farnsworth standard. W1AW Station Manager Joe Carcia, NJ1Q, says transmissions using the new protocol will begin Monday, July 2. "Any of our code transmissions at speeds below 18 WPM will drop from 18 WPM to 15 WPM character speed," he said. "We will maintain the standard method at speeds above 18 WPM--20 WPM at 20, 25 WPM at 25, etc."

Carcia said the W1AW Web code practice files <www.arrl.org/w1aw/morse.html> also will be changed to mirror the W1AW transmission protocol. ARRL's Your Introduction to Morse Code cassette tapes and audio CDs also have adopted the new standards.

The new Morse examination standards also affect test administration. After July 1, Morse examinees will have to supply fill-in-the-blank answers for the 10-question Element 1 quiz. Multiple-choice type examinations no longer will be acceptable. Under the new testing regime, Morse code examinees must either correctly answer seven of the ten fill-in-the-blank questions or correctly copy 25 consecutive characters.

The FCC Liaison Corner

- by Frank Lynch, W4FAL

This edition of the FCC Liaison Corner actually pertains to some FCC issues as well as some SERA database issues. I'll explain how these two topics are linked.

Many of you have noted that for years, the Repeater Journal has, in addition to the regular repeater listings, had a section referred to as Unknown Repeaters. In retrospect, the name of Unknown was probably not a good one.

The Unknown category was where we placed repeaters that had not had a yearly datasheet returned for a period of three years or more. Historically this procedure was implemented about the time that I joined SERA. It was an attempt to get folks to return their yearly datasheets in a timely and regular manner. Note that SERA's Coordination Policy and Guidelines (available on our web page at www.sera.org under coordination), states the following important policies with regard to this;

POLICY 13
TRUSTEE RESPONSIBILITY

A trustee of a coordinated repeater shall notify their SERA Frequency Coordinator and the SERA Computer Records Manager, in writing, within ten days of any change in their mailing address. Trustees shall notify their Frequency Coordinator in writing, within ten days of the date the repeater ceases operation. If a repeater permanently ceases operation or is sold for relocation, the trustee shall notify their Frequency Coordinator in writing, within ten days of the event. Such cessation letter will be construed to mean the trustee is relinquishing the assigned frequency pair. Failure to return the annual SERA Datasheet may also be construed as notification that the repeater has ceased operation and the frequencies are available for re-assignment.

POLICY 20 -
REPEATER INDEXES AND PUBLISHED LISTINGS

(G) Failure to return the SERA "Datasheet", that is mailed on an annual basis, may be construed to infer that the repeater is no longer on the air and the frequency is available for re-assignment. In this case, the Frequency Coordinator may issue a "notice of frequency withdrawal" without any prior warning or notice. If the owner/trustee wants to retain his coordination, it will be the responsibility of the repeater owner/trustee to respond to the Frequency Coordinator, within thirty days, to advise why the datasheet was not returned and request the coordination be left intact.

Most coordinators didn't want to do the drastic step that's outlined in Policy G. It's also a lot of work as the notice is supposed to be sent via registered mail, etc. Thus the Unknown list was born. The thought was that the being listed, as an Unknown would give everyone an incentive to get things fixed.

For the most part much of this never occurred. Most of the folks that are listed as Unknown or that operate uncoordinated repeaters never seemed too concerned.

Then an unfortunate event occurred regarding a new uncoordinated repeater that was placed on the air, and an existing coordinated but unknown repeater. The FCC got involved and basically treated the unknown repeater the same as an uncoordinated repeater.

At the recent board meeting there was considerable discussion about the Unknown list. It was decided that the experiment really hadn't worked, so this classification was eliminated. Now it's pretty simple a repeater is either coordinated or it isn't.

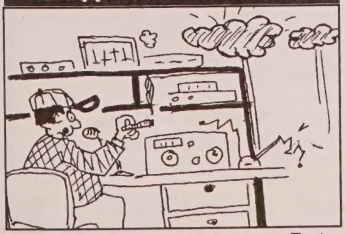
Repeater trustee's that don't return datasheets each year may be seeing the Policies in the CP&G exercised by the coordinators. If you're supposed to be getting yearly datasheets for a repeater and you're not getting them, find out why. In the next few months, the NC coordinators will be contacting those that haven't sent in datasheets for the last couple of years to find out why. We can only do as good a job of coordinating as the data that we have to work with. Help us do a good job for you.

Also, if you need to make changes to any of the fields that would require recoordination, contact your coordinator directly. Don't just mark up the sheet and send it back to Tobaccoville for the database staff to make the determination that you've modified a field that is coordination affecting. Contact you local coordinator directly and get this resolved before you make the changes, not after.

Finally, SERA has for several years now, had two types of coordination's, Individual and Club. If you're a club that has a repeater and it was coordinated long ago before the advent of the club coordination category, you might want to discuss this with your local coordinator or me. Club coordination status is the appropriate status for a machine that is owned, supported, and operated by a club. This avoids the problem of the past where an individual held the coordination for a repeater (even thought the club may have owned the repeater). In some cases in the past, clubs found themselves without coordination when that person decided to do something else with his coordination.

Frank is the SERA NC Vice Director and Frequency Coordinator, and SERA Repeater Database Manager. He can be reached at w4fal@sera.org

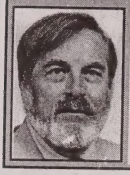
AA4QQ JOURNAL CARTOONS



Yeah Boy! The best cigar lighter ever. Try to load a kilowatt into an old set of Rabbit ears.

Thanks to all our vendors and friends for making the **Winston-Salem Hamfest** a success! See you next year on June 8, 2002.

North Carolina - News -



GENE FEGELY, K3EJG
k3ejg@sera.org
115 RANDOMWOOD LANE
NEW BERN, NC 28562

Editor's Note: Gene leaves us this issue, after 10 years of covering NC in the SERA Repeater Journal. Gene was always the standard by which others followed in news coverage. He shall be missed, and we wish him the best in his new interests in life. Next issue, Mike Lewis, WA4KE will begin covering North Carolina in the Repeater Journal. Please put him on your newsletter mailing list, and send him your future NC News items.
Mike Lewis: wa4ke@sera.org

Writing a club newsletter is often a thankless task, with first of all collecting the standard minutes, announcements, and reports; often being the on-site reporter for club meetings and activities, photographer and typesetter. Then the publishing tasks are started, addressing the finished products, and distributing them in a timely manner to inform members of the next meeting plans.

* * * * *

These club editors have to send me a copy of their hard work to supply information for this column. Over the last nine years or so, Gary Pearce, KN4AQ, of the Raleigh ARS (and now SERA Assoc Ed) - and Cary ARC Editor Tim Klimala, KM4LB; Mary Hunt, N4MH,of the Mecklenburg ARS, Mark McMahan, KB4MHP, High Point ARC; Dave Langley, W4YDY, Brightleaf ARC; and many others have kept me up-to-date on club activities and happenings.

Thank you all, and here's the latest results of your mailings:

* * * * *

The Brightleaf ARC had a chance to use their new trailer at the 12th Annual International Festival at W1VOA in May. Coordinated by Murray Merner, K3MHM; and assisted by Gerry Clayton, K4IDD; Bill Dawson, WA4SLC; Bill Finch, W4EHF; and Ken Graf, N8FF; Bob Hanrahan, AF4QY; Brian Hardee, KF4MTL; Marlin Hardee, KF4MHV; Juanita Humbles, KE4JWK; Mike Langley, KD4MTT; David LeMoine, KV4CN; Tod LeMoine, KG4CCX; John McCoy, K4KBB; Bernie Nobles, WA4MOK; Bonnie Pulver, KC4CZW; Dave Pulver, KC4CZV; and Wayne Ross, WD4JPQ; the group made over 100 contacts.

* * * * *

I also note that John Covington, W4CC, our ARRL Section Manager is visiting many clubs in the area. BARC notes his July visit, and New Bern ARC welcomed him at the July meeting I attended. He mentioned that my old visits to many Field Day sites inspired him to do the same, and also to try to make as many club meetings as possible.

* * * * *

Shelby ARC and the Forsyth ARC reported his visits recently, as John travels to explain what his duties are, and give reports on activities in the state and national levels, which will affect amateurs. The recent publicity on banning cellular use while driving has been a topic, as many wonder if it might open control of mobile ham operating.

* * * * *

Speaking of Field Day, although I only managed to visit New Bern ARC at Union Point, there again was fine coverage across the TV channels, Mac Euschler, WA0ZDL; was also featured in the local newspaper. The Mecklenberg ARS added a solar-powered PSK31 station to their activity, noted John White, WB2NHQ. John is also trying to produce a TV segment for the local public cable channel..

Guilford ARS held its FD event at the Greensboro Natural Science Center, with free admission to hams as an incentive to participate, announce Coordinator Bill Boyes, KB1G. The Raleigh ARS managed to make a big impression with two sites, one in Apex on the property of Jim, N4CAE, and Beth, KF4QMR, Carroll; and the other at the State Capitol grounds.

Shelby ARC showed they do more than have the 'Grandaddy' Ham Fest at the Cleveland Fair Grounds, with Field Day activities chaired by Claude Oakes, NC4NC. Participants included Tommy Burns, KG4HFO; Mark Beaver, KA4TFP; Ron Bailey, AA4S; Tim Elliott, W4TBE; Herb Switzer, N4BXB; Bob Bronsdon, KF4WEQ, John Ledford, W4JL; David Ledford, W4DWL; and Frank Chapman, KE4QZH. Congratulation on making more than 2000 contacts!

Plans for the September HamFest are completed, and the 'stick and peel' mailing was held on Jun 12th, with over 40,000 labels to be put on the brochures, reported Chairman Dale Mauney, WA4BBN. Between 12 and 15 thousand people are expected to attend this one of the older and most successful hamfests in the country.

* * * * *

Forsyth ARC featured congratulations to Dave Flemming, KE4JHJ, for his membership in the A1 Operator Club. Only about 4000 hams world-wide are in the organization founded in 1933 to honor excellence in amateur radio activities.

In Memory . . .

Dale with wife Elizabeth in 1995

Seraland lost a friend on May 14. The Cap 'N Badge Man, Dale Marquis, WA4EZU passed away after a lengthy illness. He had attended many hamfests in the Southeast for many years.

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Allen 2001

"Duplexers"

In this issue of the Repeater Workshop, we will examine the role of duplexers in repeater systems. The duplexer is probably the least understood component in a repeater system.

A word about terminology is probably in order. In many cases the terms duplexer and diplexer have sometimes been used synonymously. Technically a diplexer is used to either combine two transmitters onto a common antenna or feed two receivers from a common antenna (but not both). In the case of a TV station that has both a visual and an aural transmitter that must be combined onto a single antenna, we have an example of a diplexer.

A duplexer is used to allow operation of a transmitter and a receiver on the same antenna and transmission line system. In most amateur applications, the transmitter and receiver are usually in the same frequency band with frequency separations (often referred to as the "duplex separation") as low as 0.3% of the operating frequency. Actual duplex spacing varies with various amateur bands, with the 2M band being about 0.41%.

Everyone intuitively knows that you need a duplexer to make a repeater work with a single antenna and transmission line. Why? It seems that if the transmitter were perfect and the receiver were perfect, that the transmitter would only generate signals on it's transmit frequency and the receiver would be "blind" to any frequencies except the receive frequency. If that were true, we should be able to "tee" the TX and RX together and connect to the antenna.

Of course we all know that this won't work, but here's exactly why it won't work. In reality, the transmitter and the receiver are far from perfect (yes, even that GE Master II in mint condition that you bought at Dayton). All transmitters generate some amount of "RF phase noise" that extends around the carrier frequency for several MHz. Since some of this noise falls on the nearby receive frequency, nothing at the receiver can filter it out. It must be filtered out at the transmitter output. This filtering operation of "cleaning" up the transmitter is part of what the duplexer must do.

The receiver is also far from perfect. In an ideal world, the receiver would be able to receive with no degradation a weak on frequency signal that's just above the receiver threshold, in the presence of a very strong signal several hundred KHz removed from the receive frequency. In reality, all receivers have a finite "dynamic range" The dynamic range is the difference in dB, between the weak signal (typically around 0.3 uV at the RX input), and a strong off frequency signal that doesn't degrade the weak signal. For a good receiver that's designed for repeater operation, this number is about 80 dB. So I'd better not allow my receiver to see anything that's greater than the squelch threshold plus about 80 dB or I'm going to have problems. That means for a RX sensitivity of –120 dB, plus the dynamic range of 80 dB, that I'd better not exceed around –40 dBm for strong off frequency signals at the receiver input. Since even a 25-watt transmitter expressed in decibels is +43 dBm, I need some additional filtering in front of the transmitter to reduce the amplitude of the transmitter by 80 dB or more.

Filters that are able to do this at the frequencies used for repeaters generally take the form of cylindrical resonant cavity structures. Coupling loops with RF connectors mounted on the top of the cylinder couples RF in and out of the cavity. The addition of an adjustable plunger inside the cavity makes the electrical size of the cavity adjustable and thus tunable over a small frequency range. As with most things in life, larger diameter cavities provide better filtering. Also silver-plating the interior of the cavities reduces the surface resistance making the cavity a better filter. A couple of companies that make cavity resonators fabricate them from aluminum irrigation pipe. The pipe comes in diameters from 4 inch all the way up to 10 inch or larger. The pipe stock is cut to length and end caps are welded to one end. The end cap has holes cut for the coupling loops and the tuning plunger. Most air dielectric cavities will be about a quarter wavelength long at their resonant frequency. The diameter of the cavity determines how sharp the filter response is.

Finally multiple cavity filters are connected in series to form even sharper filters than can be obtained from a single cavity. A group of two or three cavities for the transmit frequency and a group of two or three for the receive frequency and we have the makings of a duplexer.

Duplexers constructed with this technique of using resonators connected in series for each frequency segment and connected with a T to form the antenna port, come in three general types.

(1) Band pass ONLY duplexers have resonators that pass the transmit frequency on the transmitter side, and resonators that pass the receive frequency on the receive side. The receive frequency rejection on the transmit leg is not independently adjustable. It is what it is.

(2) A better design is a Band Pass Band Reject type duplexer. The addition of special coupling loop assemblies to the cavity resonators, causes them to exhibit both a band pass response and a band reject (notch) response. These are can be independently tunable. For a given size resonator the performance of a Pass-Notch is superior to a Pass only.

(3) The final type of duplexer is a notch only. The primary advantage is that the duplexer is small compared to the other two types. This is of course at the expense of something. Notch only duplexers only notch the phase noise out that would land on the receive frequency on the TX side. They also only notch the transmit frequency from being presented through RX side of the duplexer. They generally aren't suitable for crowded sites with multiple frequencies as they are only able to notch a single frequency. The amount of isolation also isn't as great as obtainable from a pass-notch duplexer.

Decibel Products, Wacom, TX-RX, Sinclair, Celwave, and Phelps Dodge are examples of some current and former manufacturers of duplexers. These duplexers (especially VHF and UHF) models show up on the used markets as many of these old systems are retired. With some care, they can be cleaned up, tuned up, and used for another 20 years.

I' you have questions about duplexers please contact me. Our North Carolina Director, K4ITL has tuned more duplexers than anyone I know. If I don't know the answer to your question, we'll ask Danny.

Next time we will cover devices to enhance the repeaters ability to operate properly at crowded sites. These include isolators, harmonic filters, front-end crystal filters, and receiver pre-amplifiers.

Frank is the SERA NC Vice Director and Frequency Coordinator, and SERA Repeater Database Manager. He can be reached at < w4fal@sera.org >

Got a Repeater Topic you want Frank to Cover in the Future? Just E-Mail him and let him know!

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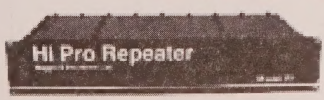

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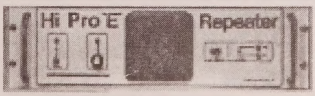

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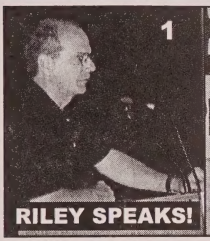
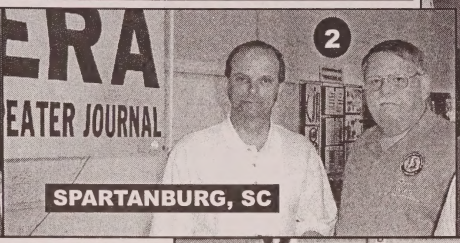
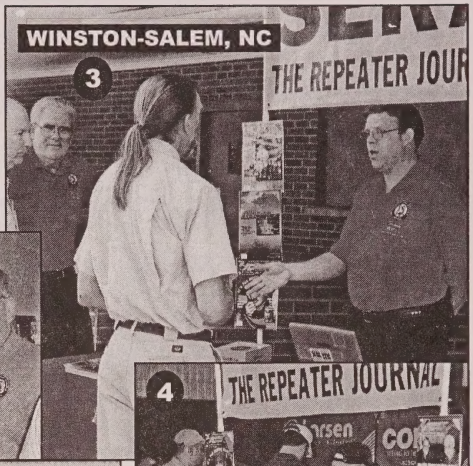
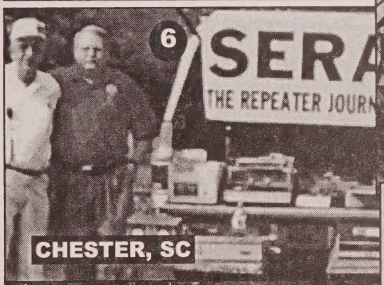
SERA At The Hamfests

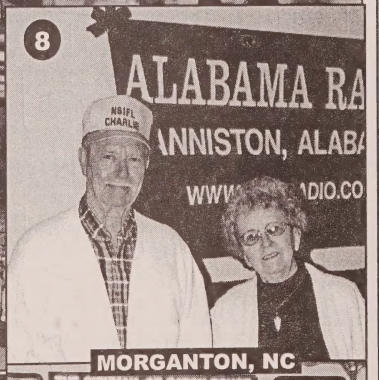


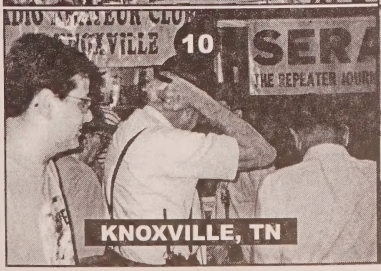




SERA celebrates the hamfests of the Southeast. In our montage this issue: (1) Riley Hollinsworth speaks to the Salisbury HF (2) Riley poses with SC VD Roger Gregory at the Spartanburg HF (3) The NC "Lynch Mob" handles things at Winston-Salem, NC, (4) Ditto for Salisbury, NC with Bob & Chuck (5) Fred Jones poses with color guard at Louisa, KY (6) Roger at Chester, SC (7) Oops...that's Dayton (8) Charlie and wife of Alabama Radio at Morganton, NC (9) Sign Man of Batan Rouge busy at Morganton (10) Heading for SERA booth at Knoxville, TN.. Be sure to visit the SERA booth - coming to a hamfest near you - Look for the big Yellow banner!







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License Examinations: **Ken Palmer, W4YBY, (865) 435-4303; W4YBY2@home.com**

Talk-in: **W4SKH: 146.88**

Our NEW LOCATION: The Fraternal Order of Eagles building is located in Oak Ridge, TN on the Oak Ridge Turnpike (Hwy. 95), one block west of the intersection of the Turnpike and Illinois Avenue. From Knoxville, follow Illinois Avenue to the Turnpike and turn left (westbound) on the Turnpike. The Eagles building is on the right just past the East Fork Poplar Creek bridge. More info: http://www.kornet.org/orarc.

Tennessee News From the East

Bob Gault, KD4NEC
221 Cedarwood Trail
Cleveland, TN 37312
bgault@wingnet.net

In the July issue of Q-S-T, O.D. Keaton, WA4GLS, announced he would not seek another term as Tennessee Section Manager. A familiar face at hamfests, Keaton said he will leave with ten years of satisfying service. Anyone who has availed themselves of the opportunity to chat with him will agree he has been a tremendous asset to the ARRL and the amateurs of Tennessee. Whoever is picked to take his place, will have some big shoes to fill.

O.D. was also instrumental in working with Tennessee repeater owners and the then CVRA to arrange for the state to join the Coordination organization. CVRA accepted Tennessee as a member state in 1981. (CVRA later became SERA)

* * * * *

A number of hams were involved in communications for the Tour de Cure, a benefit for the American Diabetes Association. There were two "legs" of the ride - Nashville to Chattanooga and Chattanooga to Knoxville. Rick Willis, East Tennessee tour director, reports $108,000 was raised on the Chattanooga - Knoxville segment.

Jonathan Guy, KE4AIK, gives credit to the Lakeway Amateur Radio Club, Ocoee Amateur Radio Society, and the Chattanooga Amateur Radio Club. Members from all three clubs participated Saturday and Sunday monitoring rest stops and keeping track of riders in vehicles. He also reports the McMinn County Amateur Radio Club was a big help when they offered their 145.310 repeater for communications. Jonathan said " we used the 145.310 machine on day one and about half of day two until we moved over to the 146.790 machine owned by the Chattanooga club. The Ocoee group had their 442.925 repeater linked into the west leg just in case we needed to communicate between the east and west legs. Truly, a team effort." The three clubs offered support to the 236 cyclists who participated.Thanks were also extended to Phil Venable K4MCD, Rod Young KF4UWL, and Wallace Brown, KD4XV, for their work making the Tour de Cure a success.

And our thanks to Jonathan for sharing this information with The Journal.

* * * * *

The Rhea County ARES / RACES net is on the 147.39 repeater on Saturdays at 9 p.m. Hams within range of the machine are invited to check in. Meanwhile, we might also mention the Meigs County net is held on Tuesday evenings at 8:30 p.m. The 145.15 machine has a 141.3 tone for access.

* * * * *

Speaking of nets, the Cleveland Amateur Radio Club has two nets on Thursday nights on the 147.180 (P.L. 118.8) wide coverage repeater in Polk County, Tennessee. Bradley County's RACES net begins at 7:30 p.m. It is followed by the club's STAR (Southeast Tennessee Amateur Radio) net at 8:30 p.m. As one of the net controls, I can report we have check-ins on a regular basis from the northern counties of Alabama and Georgia into western sections of Knoxville. We invite you to join in! The Ocoee Amateur Radio Society uses the same repeater on Tuesdays at 9 p.m. for their weekly net. Whitten Davis, KG4HYL, is the OARS president in 2001.

The Cleveland club is working on expanding it's library that was started with a donation of old Q-S-T's by O.D. Keaton, WA4GLS. Some ham books, study guides and a video have been added. The Q-S-T's have been very popular among members who enjoy reading articles about old radio gear which many are now using. The library is a growing, valuable resource for club members.

* * * * *

Plans are underway for Hamfest Chattanooga, which will be on October 27th at Camp Jordan Arena in East Ridge, Tennessee. Always one of the area's largest hamfests, club members are hard at work to make the event one of the best they've hosted. The site is easy to get to from I-75 and there is plenty of bone yard space for those looking for special items. Hours for the hamfest are 8 a.m. until 4 p.m.

* * * * *

Current officers of the Radio Amateur Club of Knoxville are: Bruce Cliff, K4CPK who is president of RACK; Sheila Tallent, KB4G, 1st vice president; Wayne McNeely, KF4TBY, 2nd vice president; Jim Norman, KG4CFB, 3rd vice president; H.P. Oxendine, KA4LEO, secretary and newsletter editor; and Carol Whetstone N4LFR, treasurer. Others accepting positions of responsibility are activities chairman Ed White, KG4ELT, and their hamfest chairman, SERA's own David Bower, K4PZT.

The Knoxville hamfest was held in June and I regret not being able to attend. It sounds like it was an A+ gathering. Reports I've heard indicate all of the inside tables and outside flea market spaces were taken. Could this be a sign hamfests are rebounding? At any rate, it looks like David did his homework and produced one of the best Knoxville events in recent years. In our conversations I know he has developed a formula that works. In the club's on-line newsletter, president Cliff credits David for their success, noting two ingredients were getting the word out and presenting a pleasant atmosphere once attendees arrive. This isn't the first hamfest he has directed and I bet it won't be his last.

In addition to his duties we described above, David is also president of the Oak Ridge Amateur Radio Club. Other officers this year are Chet Morris, W4GEK, vice president; Chuck Konetsky, KF4VZO, secretary; and Gwen Cole, KF4ROX, treasurer. Their regular meetings are held at 7:30 p.m. on the second and fourth Mondays of the month in the social room of the Oak Ridge Civic Center.

Sheila Tallent, KB4G erects the mast and antenna in her convertible for her HF station. She was helped by other Radio Club of Knoxville members during their Field Day.

Another Field Day has passed, and I hope your group was successful in learning more about operating in less-than-ideal conditions. It's a chance to learn more about serving in times when normal communications aren't functioning because of a natural disaster. I was able to take part in Cleveland and am looking forward to see how we will compare to other participants. We were fortunate to receive publicity in two newspapers, on four radio stations, and a TV station stopped by on Saturday to talk with some members of our group about prepardness during a disaster. It was a learning experience for the reporter, who opened the conversation admitting she knew nothing about amateur radio. But she left with an understanding of who to call on when disaster strikes.

* * * * *

If you're looking for a repeater with coverage, try Greene County's 145.410 machine located on a 4,951 foot peak of Viking Mountain. Jeffrey Bible, K4MFD says he has taken over the repeater and it is now the official Skywarn machine for Greene County. If you're within range of the signal, Jeffrey invites participation in their monthly net. A schedule for Thursday nights is under development. A recent addition is a digital weather receiver that is programmed to provide weather watches, warnings, or other important information released by the National Weather Service. Jeffrey says this will help provide timely weather alerts, 24 hours a day, for all hams and the general public. The repeater is open for anyone to use. Incidentally, Jeffrey is also working on getting a 440 repeater back on the air that would serve Greenville and the surrounding area..

We're covering eastern Tennessee with all the info we can get. Keep those newsletters and e-mails coming. Till next time have a great summer!!! *-73's, Bob.*

Repeater Journal Hamfest Advertisers In This Issue

The following hamfests are utilizing the SERA Repeater Journal as their advertising vehicle to promote their show. Let them know you appreciate their support & wisdom.

CLUB/HAMFEST	SHOW DATE	AD LOCATION
Benson (NC)	Nov. 18	Pg.12
Charlotte (NC)	Mar. 9-10 '02	Pg.8
Chattanooga (TN)	Oct. 27	Pg.54
Gainesville (GA)	Jul. 13 '02	Pg.15
Huntington (WV)	Aug. 11	Pg.11
Myrtle Beach (SC)	Nov. 10	Pg.48
Oak Ridge (TN)	Oct. 13	Pg.56
Raleigh (NC)	Apr. 14, '02	Pg.44
Rock Hill (SC)	Oct. 6	Pg.39
Salisbury (NC)	Jul. 6 '02	Pg.20
Shelby (NC)	Sep. 1-2	Pg. 4-5
Virginia Beach (VA)	Sep. 22-23	Pg.19
Winston-Salem (NC)	Jun. 8 '02	Pg.51

Attend and Support as many of your area Hamfests You Possibly Can. It's lots of Fun!!!

KG4JVT Dies in Tragic Antenna Raising Accident

-by Ron Dodson, KA4MAP

Our Friend Ron Oller, KG4JVT of Irvington, Ky. was killed in May when a two meter antenna he was installing fell into a power line connected to his home.

Ron had earlier made the venture to Dayton Hamvention with several of his friends from Meade, Breckinridge, Jefferson and surrounding counties on a charter bus. He remarked that it was one of the happiest days of his life and he laughed and rolled over the hamvention on his scooter in search of bargins like everyone else.

Ron was first licensed Oct. 6, 2000 and in spite of his physical disability, he wanted to use his license and radio in public service. He attended training in Haz-Mat awareness, storm spotting, etc over the previous 8 months and promoted amateur radio to everyone he met. Ron also had me get him in touch with the Ky Army MARS staff to make a move toward becoming an active MARS member.

Again, public service was in his mind. Just a hour or so before his accident and passing, Ron had loaned his Tech Class Study Guide to the pastor of a local Baptist church so HE could study for HIS ticket too.

He even Elmered his young 16 year old friend John of Custer into amateur radio in just these last few months. When John received the call, KG4LHQ, I am not sure which of the two was prouder. Ron visited with John and encouraged him to upgrade when he could as he himself was studying to do.

John was also at his side when the accident occurred though his efforts to save his friend were in vain.

AA4QQ JOURNAL CARTOONS

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John Vaughn, WA4ZQP 770-887-2548 wa4zqp@flash.net

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The SERA Repeater Journal Southeastern

2001/2002 HAMFEST/CONVENTION SCHEDULE

Please Note: Hamfest dates marked with an asterisk (*) are NOT confirmed and are based on information on record from the previous year's date, with no guarantee of accuracy. Hamfest sponsors are urged to get their correct show dates to the *Repeater Journal* Editor as soon as possible. We acknowledge and appreciate assistance in confirming dates from SERA & ARRL Directors; the ARRL, Commercial Dealers, and the response of many clubs and individuals sponsoring ham and computerfests. **Deadline for November issue is Oct. 1, 2001.**

AUGUST, 2001

4 ..... HF at Wm. Byrd H.S. VINTON, ROANOKE, VA
4 ..... EARS GroupTailgate Fest, ELLIJAY, GA
4 .... Voice of Aladdin ARC Hamfest, COLUMBUS, OH
5 ..... 51st Annual Winchester HF, BERRYVILLE, VA
5 ..... Hamfest at Stuben Cty Frgrnds, ANGOLA, IN
11 .. CFARS Hamfest, at Meth. Col., FAYETTEVILLE, NC
11 ..... TARA HF & Comp. Show, HUNTINGTON, WV
12 ..... HF at Nat'l Grd. Arm, LEXINGTON, KY
18 ..... Columbia ARA, Hamfest, FRIENDSHIP, MD
18 ..... Hamfest, FT. PIERCE, FL
25 ..... Hamfest, TAMPA, FL
25 ..... Hamfest, LaPORTE, IN
18-19 ..... HF at Braun Civic Cen, HUNTSVILLE, AL
19 ..... Warren ARA Hamfest, WARREN, OH
25 ..... WV State Conv/HF, (Jksons Mill) WESTON, WV
26 ..... Short. Mt. RC, Hamfest, LEBANON, TN

SEPTEMBER, 2001

1-2 ..... Hamfest at Cleveland Cty FG, SHELBY, NC
8 ..... Owen Cty ARA Hamfest, SPENCER, IN
8 ... KY St. ARRL Conv/HF-Bullit FG, LOUISVILLE, KY
8 ..... Hamfest at Auditorium, MELBOURNE, FL
8 ..... Dalton ARC Tailgate Fest, PRATER'S MILL, GA
9 ..... Findlay ARC Hamfest, FINDLAY, OH
9 ..... Butler Cty ARA Hamfest, BUTLER, PA
14-15 (fri.nite-Sat) ... Mobile ARC Hamfest, MOBILE, AL
15 ..... Arrl St. Conv./Hamfest, LITTLE ROCK, AR
15 ..... Paulding ARC Hamfest, DALLAS, GA
15 ..... Mobile ARC Hamfest, MOBILE, AL
16 ..... Greater Cinci ARA Hamfest, CINCINNATI, OH
22-23 ..... Hamfest, VIRGINIA BEACH, VA
23 ..... Hamfest Assn. of Clev. HF, CLEVELAND, OH
28-29 (Fri-Sat) .... Ten-Tec Hamfest, SEVIERVILLE, TN
30 ..... FARS HF at Pr. George Stadium, BOWIE, MD

OCTOBER, 2001

6 ..... Hamfest/Computer Fair, ROCK HILL, SC
13 ..... Stafford ARA Hamfest, STAFFORD, VA
13 ..... Hamfest, STARKE, FL
13 (New Dte) ..... Hamfest, OAK RIDGE, TN
13 ... ARC of Augusta, HF/Comp Show, AUGUSTA, GA
13 ..... Hamfest, STARKE, FL
20-21 (Fri eve-Sat) .. NW GA ARC Hamfest, ROME, GA
27 .... HF at C.Jordan in E.Ridge, CHATTANOOGA, TN
27 .... Sumter ARC Hamfest/Comp. Fair, SUMTER, SC
27 ..... Gr. Jax HF Hamfest, JACKSONVILLE, FL
28 ..... Massillon ARC Hamfest, CANTON, OH

NOVEMBER, 2001

3-4 ..... HR/Comp. Expo '01, LAWRENCEVILLE, GA
10 ... Beachfest 2001 Fleamarket, MYRTLE BEACH, SC
10 ..... Hamfest, MONTGOMERY, AL
16-17 (fri-sat) ..... Hamfest, OCEAN SPRINGS, MS
17-18 ..... IN St. ARRL Conv/Hamfest, FT. WAYNE, IN
18 . JARSFEST 2001 at American Legion, BENSON, NC
24 ..... EARS Hamfest, EVANSVILLE, IN

DECEMBER, 2001

1-2 ... ARRL SE Div Conv/HF, PALMETTO (Tampa), FL
8 ..... Union Cty ARC Hamfest, at Armory UNION, SC

Need Your Hamfest Listed?
Contact the Repeater Journal Editor!
Deadline for November issue is Oct. 1

2002 HAMFEST SCHEDULE
January thru August

JANUARY, 2002

5-6 ..... SERA Winter Bd Meet, PIGEON FORGE, TN
5 ... HF at Talley Ward Rec Cen, MORRISTOWN, TN
11-12 ..... Ft. Myers ARC Hamfest FT. MYERS, FL
12 ..... Hamfest, GREENWOOD, SC
12* ..... Dial RC Hamfest, MIDDLETOWN, OH
13* ..... Hamfest, GOSHEN, IN
13 ..... Hamfest, SOUTH BEND, IN
19* ..... Hamfest at SLU Univ., HAMMOND, LA
19. .... SCARA Hamfest at Civic Center, GALLATIN, TN
19* ..... HF at Hernando Cty FG, BROOKSVILLE, FL
19-20* ..... Hamfest, SARASOTA, FL
26* ..... Hamfest, GREENVILLE, AL
26* ..... DeSoto ARC Hamfest, ARCADIA, FL
27* ..... Md Mobileers ARC Hamfest, ODENTON, MD
27 ..... Tusco ARC Hamfest, DOVER OH

FEBRUARY, 2002

1-2 (fri-sat) . MS State ARRLConv/HF, JACKSON, MS
2 ..... Hamfest at Stall HS, N. CHARLESTON, SC
2-3 ... FI. St. ARRL/HF at Dade Expo Cen, MIAMI, FL
8-10 ..... Hamfest, Cen.Fl. FG, ORLANDO, FL
9-10 ..... Hamfest, MEMPHIS, TN
10 (new dte) .. VA St.ARRL/FrostFest, RICHMOND, VA
10. ..... Hamfest, MANSFIELD, OH
23* ..... Cabin Fever Hamfest, LaPORTE, IN
23 ..... Dalton ARC Hamfest, DALTON, GA
24 (new dte) ..... Hamfest at Armory, ELKIN, NC
24* ... Hamilton Cty ARPSC Hamfest, CINCINNATI, OH
24* .. Cuyahoga Falls ARC HF, CUYAHOGA FALLS, OH
24 ..... Hamfest, ZEPHYRHILLS, FL

MARCH, 2002

2 ... Gulfcoast ARC Hamfest, NEW PORT RICHEY, FL
2* ..... AR River Val. Hamfest, RUSSELLVILLE, AR
2* ... Mam. Cave ARC Ham/Swapfest, CAVE CITY, KY
2 ..... Kerbela Hamfest at Temple, KNOXVILLE, TN
3 ... Vienna Wireless Assn Winterfest, ANNADALE, VA
9* ..... Hamfest, ENGLEWOOD, FL
9-10 ..... HF/Comp. Show, CHARLOTTE, NC
16* ..... Swapfest at Cty FG, FT. WALTON BEACH, FL
16* ..... Hamfest at Jim Miller Pk, MARIETTA, GA
16 ... Hamfest at Coonskin Armory, CHARLESTON, WV
16* ..... Hamfest, Martin Cty. Fg, STUART, FL
17 ..... Toledo MRA Hamfest, MAUMEE, OH
23* . Plateau Hamfest (frmly Fayetteville), BECKLEY, WV
24. ... Downeast HF - Lenior Cty. Frgrds, KINSTON, NC
24* ..... Lake Cty ARA Hamfest, MADISON, OH
30* ..... Middle TN ARS Hamfest, TULLAHOMA, TN
30* .. Lincoln Trail ARC Hamfest, ELIZABETHTOWN, KY

APRIL, 2002

6-7 ..... ARRL MD St.-Conv/HF, TIMONIUM, MD
6-7 ..... Gr. Jax HF Hamfest, JACKSONVILLE, FL
7* ..... Ft. Smith Area ARC Hamfest, FT. SMITH, AR
7* ..... Cave Run ARA Hamfest, MOREHEAD, KY
7* .... Swapfest at Tombigbee State Pk., TUPELO, MS
14 ..... NC St. ARRL Conv./RARSFest, RALEIGH, NC
14* ..... Hamfest, GASSAWAY, WV
14* .... Marshall Cty ARC Hamfest, ALBERTVILLE, AL
20* ... Chesapeake ARS Springfest, CHESAPEAKE, VA
20* .... Murray State Univ. ARC Hamfest, MURRAY, KY
20* ..... Catawba Val. HF & Comp., MORGANTON, NC
20* ..... Tampa, ARC Hamfest, TAMPA, FL
27* ..... Cherokee Cap. ARS Hamfest, CALHOUN, GA
27* ..... Bankhead ARC Hamfest, MOULTON, AL
27* ..... 5th Salkehatchie Tailgate Party, WINSOR, SC
27* ..... Hamfest, GAINESVILLE, FL
28* ..... Athens Co. ARA Hamfest, ATHENS, OH
28* ..... Hamfest, CANFIELD, OH

MAY, 2002

3-4* ..... Hamfest, BATON ROUGE, LA
3-4 ..... MO St. ARRL Conv/HF, LEBANON, MO
4* .. Upstate Hf (Blue Rdg. ARS), SPARTANBURG, SC
4* .. Big Sandy ARC 4th Annual Hamfest, LOUiSA, KY
4* ... A.Arundel/Kent Is.Hamfest, GRAYSONVILLE, MD
4-5* ..... Birminghamfest, BIRMINGHAM, AL
5* ..... Antietam RA Hamfest, HAGERSTOWN, MD
5* ..... Jax Cty ARC Hamfest, RIPLEY, WV
11* ..... Johnson Cty ARC, MOUNTAIN CITY, TN
17-19 ..... Hamvention, DAYTON, OH
13 ..... Hamfest at Sadler's Cr. Pk., HARTWELL, GA
18* ..... Roanoke ARS Swapfest, WILLIAMSTON, NC
18* ..... Hamfest, STATESBORO, GA
25* . Pennyrile Tailgate at Park, DAWSON SPRINGS, KY
25* ..... Dur-HamFest at S. Sq. Mall, DURHAM, NC
26* ..... MD FM Assn. Hamfest, W.FRIENDSHIP, MD

JUNE, 2002

1* ..... HF at Jax Cty. FG PASCAGOULA, MS
1* ... Atlanta RC Hamfest, ATLANTA (MARIETTA), GA
2 ..... Ole Va Hams, Hamfest at FG, MANASSAS, VA
2* ..... Hamfest, PRINCETON, IL
7-8 (Fri eve-Sat) ..... Elec. Expo/HF, KNOXVILLE, TN
8* ..... HF/Computer Fair, ALBANY, GA
8* ..... Franklin ARRA Picnic/Tailgate, FRANKLIN, VA
8 ... Hamfest at Dixie Frgrnds, WINSTON-SALEM, NC
9* ..... N. Ky ARC Hamfest, INDEPENDENCE, KY
9* ..... Hamfest (Suffield) AKRON, OH
15* .. 3rd Annual Chester ARES Tailgate, CHESTER, SC
15* ..... Nashville ARC Hamfest, NASHVILLE, TN
16* ..... Frederick ARC Hamfest, FREDERICK, MD
16* ..... LakeCty ARC Hamfest, CROWN POINT, IN
22-23* ..... ARRL FIELD DAY
24 ..... Hamfest, ZEPHYRHILLS, FL

JULY, 2002

6* ..... Hamfest, INDIANAPOLIS, IN
6 ..... Firecracker HF at Civic Cen, SALISBURY, NC
13 ..... Lanierland ARC Hamfest, GAINESVILLE, GA
13* ..... Hamfest at Bradley HS, CLEVELAND, TN
19-20* (fri-sat) ..... Milton ARC Hamfest, MILTON, FL
20 ..... Midsummer Swapfest, CARY, NC
20* ... RCARS Hamfest at Cedar Pt. Park, DAYTON, TN
27* ..... OH-KY-IN ARS Hamfest, CINCINNATI, OH
27* . WCARS HF, Haywood Cty. FG, WAYNESVILLE, NC
28* ..... Portage Cty ARC Hamfest, RANDOLPH, OH
28* .... BRATS HF and Computer Fest, TIMONIUM, MD

AUGUST, 2002

3* ..... HF at Wm. Byrd H.S. VINTON, ROANOKE, VA
3. .... Voice of Aladdin ARC Hamfest, COLUMBUS, OH
3* ..... Hamfest, EILLIJAY, GA
4 ..... 52nd Annual Winchester HF, BERRYVILLE, VA
4. ..... Hamfest at Stuben Cty Frgrnds, ANGOLA, IN
10* . CFARS Hamfest, at Meth. Col., FAYETTEVILLE, NC
10* ..... TARA HF & Comp. Show, HUNTINGTON, WV
11* ..... HF at Nat'l Grd. Arm, LEXINGTON, KY
16-17 (Fri.eve-Sat) . HF at Braun Cen, HUNTSVILLE, AL
18* ..... Warren ARA Hamfest, WARREN, OH
24* .... WV State Conv/HF, (Jksons Mill) WESTON, WV
25* ..... Short Mt. RC, Hamfest, LEBANON, TN

2003 CONFIRMED DATES

Jan. 4 ..... Hamfest, MORRISTOWN, TN
May 16-18. ..... Dayton Hamvention, DAYTON, OH
July 19 ..... Mid-Summer Swapfest, CARY, NC
Aug. 6 .. 53rd Annual Winchester HF, BERRYVILLE, VA

2004 CONFIRMED DATES

July 17 ..... Mid-Summer Swapfest, CARY, NC

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The not-for-profit Recognized Repeater Coordinator for: GA, KY, MS, NC, SC, TN, VA, & WV

2001 Repeater Full Membership Application

Please fill out the this short form SERA Full Member Application completely. Maximum number of letters for your repeater name is 14 characters. Be sure to list 2 persons as SERA representatives. ONLY these two will have voting rights, and receive the *Repeater Journal*. MAIL YOUR CHECK AND APPLICATION TO: SERA FULL MEMBERSHIP, P.O. BOX 215, TOBACCOVILLE, N.C. 27050. Deadline to be listed as member in next November, 2001 Repeater Journal is Oct. 10, 2001.

	CITY/ MTN. ETC. (MAX 14 LETTERS)	RPTR CALLSIGN	INPUT FREQ.	OUTPUT FREQ
RPTR #1				
RPTR #2				
RPTR #3				
RPTR #4				

USE AS MANY LINES ABOVE AS YOU HAVE REPEATERS-ONE FOR EACH REPEATER. IF MORE SPACE NEEDED, USE SEPARATE SHEET OF PAPER.

NAME TWO PERSONS WHO WILL REPRESENT SERA AS FULL MEMBERS. EACH WILL RECEIVE THE *REPEATER JOURNAL*.

NAME_____ CALL_____
ADDRESS _____
CITY_____STATE_____ZIP_____
HOME PHONE #: ( ) _____
E-MAIL ADDRESS: _____
ARRL MEMBER: [ ] YES [ ] NO

NAME _____ CALL_____
ADDRESS_____
CITY_____STATE_____ZIP_____
HOME PHONE #: ( ) _____
E-MAIL ADDRESS: _____
ARRL MEMBER: [ ] YES [ ] NO

FULL MEMBERSHIP: [ ] NEW [ ] RENEWAL - (**$10.00 FOR YEAR 2001 - 7/1/01 thru 12/31/01**) FEE ENCL. - AMOUNT $_____

REPEATER IS SPONSORED BY: (Name of Club OR Owner)_____

REPEATER TRUSTEE'S NAME_____ CALLSIGN _____

IF A 2001 SERA REPEATER DATASHEET WAS NOT RECEIVED LAST OCTOBER, INDICATE PERSON'S NAME AND ADDRESS TO SEND 2002 TO:

NAME _____ CALLSIGN_____

ADDRESS_____ CITY_____ STATE_____ ZIP_____

■ *IMPORTANT NOTE: ONLY OFFICIALLY SERA COORDINATED, ON-AIR, OPERABLE REPEATERS ARE ELIGIBLE FOR SERA FULL MEMBERSHIP An application for SERA Full Membership status, and the payment of the respective dues thereof, does NOT constitute coordinated status for the repeater(s) listed on this application or accompanying sheets. Contact your local coordinator to learn how to obtain coordinated status.*

THANK YOU FOR YOUR GENEROUS FINANCIAL SUPPORT OF THE SOUTHEASTERN REPEATER ASSOCIATION, INC. - YOUR LOCAL COORDINATOR

REPEATER OWNERS - A LITTLE REMINDER!

There is nothing like letting your friends and users know you support SERA. Full Member repeaters are designated in our indexes by the little ☺. Don't be "un-smiley" ☹, fill out the application above and send it in. Two persons will be Full Member Representatives and get the Repeater Journal for 2001.

COMMUNICATION HEADQUARTERS, INC.

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5. Place your SECURE online order on our in-house high speed Web Site 24 hours/day http://chq-inc.com

MFJ

MFJ-105C
24 hour clock

MFJ-118 LCD
24 hour clock

MFJ-270
Gas Discharge
Lightning Arrestor

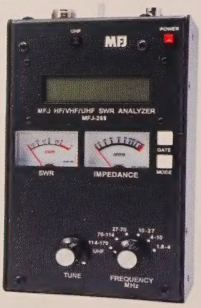
MFJ-4035MV
Power Supply

MFJ-1118
Deluxe Power Strip

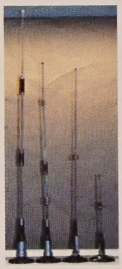
MFJ-870
POWER/SWR
1.8-200Mhz

MFJ-269

- 1.8-170/415-470 MHz SWR VHF-UHF Analyzer
- Measure resonant frequency
- Coax cable loss
- Trouble shoot antenna & coax
- Frequency counter
- LCD digital readout
- Built-in Ni-Cad charger
- More contacts, stronger signal with simple to use MFJ-269



MFJ-340-MFJ-345
Mobile Antenna Mt



Mobile Antennas
NMO & PO mount

MFJ-418
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Fast and Simple

MFJ-941E
HF Antenna Tuner

MFJ-949E
HF Antenna Tuner

MFJ-969
HF + 6 Meters

MFJ-989C
3000 Watt Tuner

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- 100 memory channels
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- Large, comfortable backlit mic
- Ten autodial memories
- Accepts optional EJ-41U internal 1200/9600 TNC
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- Front panel input for GPS/APRS® operations
- Ignition key on/off feature
- Theft alarm feature
- Multiple scan modes including CTCSS and DCS
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- Narrow FM operation feature
- 1200/9600 bps capability with internal or external TNC
- Wire clone feature

DR-135T/TP/TG/TPG 2 Meter FM Transceiver

Additional features include:

- 144 ~ 148 MHz TX/RX
- AM Airband RX (118 ~ 136 MHz)
- Extended Receive 136 ~ 174 MHz (FM)
- MARS capability
- 50/10/5 watt power output settings
- Available with or without internal 1200/9600 TNC
  TP and TPG include factory-installed TNC

By Popular Demand!

DR-235T/TG 222 MHz FM Transceiver

Additional features include:

- Amazing low price for 222 MHz
- 222 ~ 225 MHz TX/RX
- Extended receive 216 ~ 280 MHz (FM)
- 219 ~ 220 MHz TX/RX capability (see FCC rules)
- MARS capability
- 25/10/5 watt power output settings
- Accepts optional EJ-41U 1200/9600 internal TNC

DR-435T/TG 440 MHz FM Transceiver

NEW!

Additional features include:

- 430 ~ 450 MHz TX/RX
- Extended receive 350 ~ 511 MHz (FM)
- All memories capable of odd splits
- 35/10/5 watt power output settings
- Accepts optional EJ-41U 1200/9600 internal TNC

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